





US Army Corps of Engineers

Toxic and Hazardous Materials Agency

FINAL REPORT

EXPLOSIVES WASHOUT LAGOONS SOILS OPERABLE UNIT SUPPLEMENTAL INVESTIGATION TECHNICAL AND ENVIRONMENTAL MANAGEMENT SUPPORT OF INSTALLATION RESTORATION TECHNOLOGY DEVELOPMENT PROGRAM UMATILLA DEPOT ACTIVITY HERMISTON, OREGON

Prepared For:

U.S. Army Toxic and Hazardous Materials Agency (USATHAMA)
Master Agreement No. 057970-A-D1
EMO Task Order No. 14213

Prepared By:

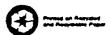
MORRISON KNUDSEN ENVIRONMENTAL SERVICES and CH2M HILL

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April 1992

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March 30, 1992

RLO32126

Dr. Mark Montgomery
Battelle Sacramento EMO
2701 Prospect Park Drive
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Attention: Dr. Montgomery

Subject: Master Agreement 057970-A-D1; Task Order 142134 Explosive Washout Lagoons Site Support Services for Umatilla Depot Activity, Phase II, Draft Final Supplemental Investigation Report.

Submitted herewith are copies of the Draft Final Explosive Washout Lagoons Supplemental Investigation Report for the subject project. Copies have also been submitted to Dr. Charles Lechner of USATHAMA.

At Dr. Lechner's request, we have concurrently sent copies to the following:

- Christine Engler
 Seattle District Army Corps of Engineers
- Harry Craig, USEPA
 Oregon Operations Office
- Bill Dana,
 Oregon Department of Environmental Quality
- Mr. Mark Daugherty
 Umatilla Depot Activity

In order to minimize printing, we have assumed that only a limited number of minor changes will be needed to upgrade the Draft Final to a Final report ready for public review. We will issue final report covers, DD Form 1473, and any other necessary inserts to the recipients of the Draft Final reports when the report is upgraded to final. We will then print and submit to UMDA any additional copies needed for public review.

Please contact Bill Heartz or Linda Mihalik at (206) 453-5000 if there are any questions or we can be of further service.

Sincerely,

CH2M HILL

William T. Heartz

Task Order Manager

cc: Linda Mihalik/CH2M HILL

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Harry Craig/USEPA

Bill Dana/DEQ

Mark Daugherty/UMDA

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Dan Glenn/CH2M HILL/RLO

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April 1992



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Acronyms and Abbreviations

AA Atomic absorption

ASTM American Society for Testing and Materials

cfm cubic feet per minute

CLASS Contract Laboratory Analytical Support Services

cm Centimeter

CRZ Contamination Reduction Zone

1,3-DNB2,4-DNT2,4-Dinitrotoluene2,6-DNT2,6-Dinitrotoluene

EPA Environmental Protection Agency

EPIC Environmental Photographic Interpretation Center

ESE Environmental Science and Engineering, Inc.

*F degrees FahrenheitFS Feasibility StudyFSP Field Sampling Plan

g grams

GC Gas chromatography

GC/MS Gas chromatography/mass spectrometry
GCEC Gas chromatography with electron capture

GFAA Graphite furnace atomic absorption spectroscopy

HMX High Melting Explosive (cyclotetramethyl-enetetranitramine)

HPLC High pressure liquid chromatography

ICP Inductively coupled plasma atomic emission spectroscopy

ID Inside diameter

kg kilogram km kilometer

LHA Lifetime Health Advisory

Layne Environmental Services, Inc.

MCL Maximum contaminant level

μg/g Micrograms per gram
μg/l Micrograms per liter

MKES Morrison Knudsen Environmental Services

ml milliliter

msl mean sea level
NB Nitrobenzene

NPL National Priorities List

PCBs Polychlorinated biphenyls

ppb parts per billion ppm parts per million

psi pounds per square inch

QC Quality control

RDX Royal Demolition Explosive (cyclotrimethylenetrinitramine)

RI Remedial Investigation

RI/FS Remedial Investigation/Feasibility Study

RPD Relative percent difference

TCL Target Compound List

TIC N-methyl-N,2,4,6-tetranitroaniline
TIC Tentatively identified compound

1,3,5-TNB 1,3,5-Trinitrobenzene
2,4,6-TNT 2,4,6-Trinitrotoluene
TOC Total Organic Carbon

UMDA Umatilla Depot Activity

USATHAMA U.S. Army Toxic and Hazardous Materials Agency

USGS U.S. Geological Survey

WLSSI Washout Lagoon Soils Supplemental Investigation

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Executive Summary

Executive Summary

The Washout Lagoons Soils Supplemental Investigation was performed November 1 through 4, 1991, by Morrison Knudsen Environmental Services (MKES) and CH2M HILL to determine the distribution and concentration of contaminants in soils directly beneath the lagoons. Four boreholes were drilled, and soils were sampled at predetermined depths in accordance with the Field Sampling Work Plan, Explosive Washout Lagoons, Site 4, August 1991. Samples were analyzed by Environmental Science and Engineering, Inc. (ESE), a U.S. Army Toxic and Hazardous Materials Agency (USAT-HAMA) Contract Laboratory Analytical Support Services (CLASS) laboratory.

Laboratory results from soil samples taken beneath the lagoons indicated contamination was essentially limited to explosives and nitrate, although the concentration of the trace element beryllium (Be) was slightly elevated. At 1-2.5 μ g/g, concentrations of Be were slightly above the background levels measured on Depot soils. However, they were well within the range of background concentrations (0.1-40 μ g/g) reported in *Chemical Equilibria in Soils* (Lindsay, 1979). Concentrations of other organic and inorganic analytes were either below detection or in the range of background levels.

Concentrations of explosives in soils decreased rapidly from the bottom of the lagoons to a depth of about 10 feet and then remained in the range of 1-100 μ g/g in the interval from about 10 feet down to the water table. The explosives detected most frequently and in the greatest concentration were 1,3,5-TNB, 2,4-DNT, 2,4,6-TNT, HMX, and RDX. Tetryl was not detected; and 1,3-DNB, 2,6-DNT, and NB were detected in only a few samples and at relatively low concentrations. These findings are similar to the results of previous investigations conducted outside the lagoons.

Concentrations of explosives did not appear to correlate strongly with lithology on a large (macro) scale. An increase in silt or sand content in boreholes did not consistently result in an increase or decrease in the concentration of explosives. These results suggest that the distribution of explosives appears to be more strongly affected by borehole-specific conditions (micro-scale lithology, permeability, distance from the movable flume, and location relative to the lagoon) than by macro-scale lithology.

Groundwater is the suspected source of soil contamination observed near the water table in boreholes adjacent to the lagoons. Explosives-contaminated seepage has been flushed from soils and has moved laterally away from the lagoons in the groundwater system. Contaminants in groundwater appear to have been adsorbed by soils during fluctuations in the water table. The flushing also accounts for a relative decrease in concentrations of some contaminants in soil samples taken immediately above the water table and directly beneath the lagoons.

Profiles of borings show a dramatic difference in concentrations of explosives in areas outside the lagoons vs. concentrations beneath the lagoons. The results confirm that

lateral migration of contaminants above the water table is not significant. Migration appears to be primarily vertical as a result the relatively high permeability of soils beneath the lagoons.

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Chapter 1 Introduction

Chapter 1 Introduction

The U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) at Aberdeen Proving Ground, Maryland, has requested technical and environmental management assistance for the Installation Restoration Technology Development Program at the Umatilla Depot Activity (UMDA) in Hermiston, Oregon (Figure 1-1). Past operations at UMDA included the demilitarization of conventional munitions using a pressurized hot water procedure. The washwater was transferred to two lagoons west of the washout facility. Discharge into the lagoons resulted in contamination of underlying soils and groundwater.

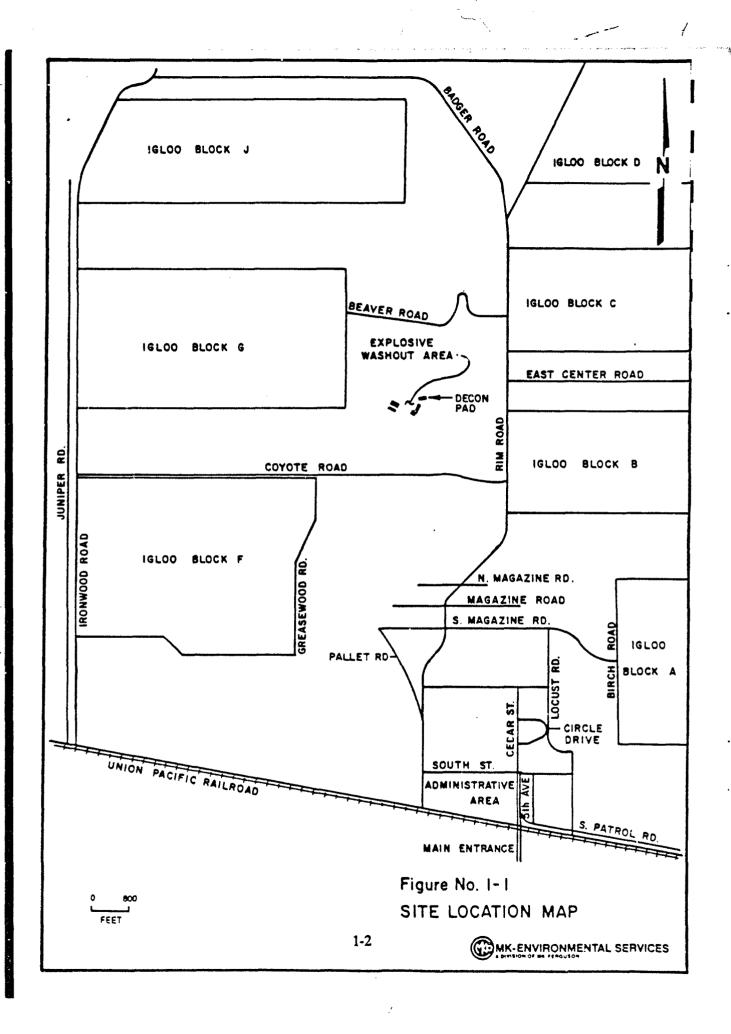
The UMDA Explosive Washout Lagoons were placed on the U.S. Environmental Protection Agency (EPA) National Priorities List (NPL) in late 1987 because explosive compounds were detected in the underlying unconfined aquifer. Prior investigations also showed shallow soils in the bottom of the lagoons and soils collected from boreholes adjacent to the lagoons to be contaminated with explosives and nitrate.

An additional field investigation, the Washout Lagoons Soils Supplemental Investigation (WLSSI), was performed November 1 through 4, 1991, by Morrison Knudsen Environmental Services (MKES) and CH2M HILL to determine the distribution and concentration of contaminants in soils in the area directly beneath the lagoons. The WLSSI supplements the comprehensive site Remedial Investigation/Feasibility Study (RI/FS), which is presently being completed by Dames & Moore. Four boreholes were drilled, and soils were sampled at depth during the WLSSI. All samples were analyzed for a selected suite of explosives and nitrate/nitrite. Near-surface samples were also analyzed for target compound list (TCL) volatiles and semivolatiles, trace and major elements, pesticides, polychlorinated biphenyls (PCBs), total organic carbon (TOC), pH, and percent moisture.

This document, the WLSSI Draft Report, has been prepared as a deliverable under Subtask 3.4 of Project Implementation, Phase II for UMDA Explosive Washout Lagoons Site Support Services. The report includes a description of the two lagoons and a statement of work identifying sampling activities. Sample locations and depths, handling, documentation, custody procedures, and analytical parameters are identified. Discussions and interpretations of laboratory results and field data are presented. The results of the investigation are summarized, and conclusions are drawn from the findings.

1.1 Purpose and Scope

In the Risk Assessment for the Explosive Washout Lagoons, Dames & Moore (1991) concluded that remediation of contaminated soils is necessary to protect human health and the environment. Field testing at UMDA has shown that composting is a viable



remedial alternative for decontaminating soils (Roy F. Weston, Inc., 1991). Composting and other remedial alternatives, such as incineration, are being evaluated and screened by CH2M HILL and MKES during the feasibility study (FS), now underway.

Surface sampling within the lagoons has shown that contaminant concentrations are highly variable. Subsurface investigations adjacent to the lagoons suggest that most of the contamination is generally restricted to soils near the surface and immediately above the water table.

The WLSSI was performed to determine the distribution and concentration of explosives, their breakdown products, and contaminants in soils directly beneath the lagoons. Prior to the WLSSI, the data were unavailable. The results have been correlated with data from previous investigations to develop a more complete profile of subsurface contamination. The findings documented in this report will be used to determine the quantity of soil requiring remediation and to provide a data base for the evaluation of remedial alternatives.

1.2 Field Sampling Program

The dual-wall reverse air circulation method was used to drill four boreholes through the Explosive Washout Lagoons. This method had been used during previous investigations at UMDA. Boreholes were advanced to the intersection of the underlying water table, which occurred at approximately 48 feet below the bottom of the lagoons.

During sampling, a split-barrel sampler was inserted through the hollow drill bit and driven 18 inches into undisturbed soil. Approximately 14 soil samples were collected from each borehole at predetermined depths and analyzed for a suite of selected chemical constituents. The sample analysis program is discussed in Chapt

Drilling operations, soil sampling, and disposal of waste materials and cuttings were performed in accordance with UMDA and USATHAMA procedures and recommendations, the approved field sampling plan (FSP) (CH2M HILL and MKES, 1991), and the approved overall site remedial investigation/feasibility study (RI/FS) Work Plan and Field Sampling Plan (FSP) (Dames & Moore, 1990 and 1990b). Exceptions to these procedures are noted herein.

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Chapter 2
Background and Physical Setting

Chapter 2 Background and Physical Setting

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1

2.1 Operational History

Explosive washout operations were conducted in Building 489 (washout plant) at UMDA between the early 1950s and 1965. During these operations, explosives were washed from munitions, bombs, and projectiles using pressurized hot water and steam cleaning. The washout system was normally drained and flushed each week, which produced approximately 150,000 gallons of wash water. The discharge was transferred to two lagoons through a metal trough equipped with a movable flume. It is estimated that a total of 85,000,000 gallons of wash water may have been discharged to the lagoons during the operational period. The lagoons were constructed upon relatively permeable glacial flood gravels and were reportedly rebuilt during the operation (Dames & Moore, 1990a and 1990b).

Wash water was discharged to the north or south lagoons on an alternating basis depending on the setting of the movable flume (Figure 2-1). One lagoon was used while the other was allowed to dry. Wash water was discharged into the active lagoon until approximately 3.5 feet of liquid had accumulated or until the rate of infiltration was substantially reduced by sludges. Sludges were periodically removed and transported to the ammunition demolition area for burning. Discharge to the lagoons from washout operations ceased in 1965.

2.2 Location and Site Description

The Explosive Washout Lagoons are located in the central part of the UMDA, approximately 3 miles south of the Columbia River. Most of the area near the Columbia River has poorly developed surface drainage patterns resulting from the high permeability of the glaciofluvial flood sediments that occur at ground surface. No perennial streams are present within the UMDA.

The UMDA is in a region with a semi-arid, cold desert climate. The surrounding vegetation consists of arid grasses and shrubs. Precipitation averages 8 to 9 inches per year, and evaporation is high, averaging 32 inches per year.

The average temperature at the UMDA is 75°F during the summer and 35°F during the winter. A maximum temperature of 113°F and a minimum temperature of -31°F have been recorded.

2-2

The lagoons were constructed in Coyote Coulee, a linear depression that is the major surface drainage feature within the UMDA (Figure 2-2). The escarpment above Coyote Coulee apparently is a large sand wave formed during the Pleistocene glacial floods of the Columbia River. The ground surface slopes southeastward away from the escarpment toward the Umatilla River at a gradient of approximately 50 feet per mile (Dames & Moore, 1990a and 1990b). Rolling hills and small areas of closed drainage are present west of Coyote Coulee.

The lagoons are west of Rim Road and north of Coyote Road (Figure 1-1) in the central portion of UMDA. The dimensions of the north and south lagoons are approximately 39 feet by 80 feet and 27 feet by 80 feet, respectively. Both lagoons are approximately 6 feet deep and have sandy bottoms and gravelly sides. The north and south lagoons are separated by a gravel benn that is approximately 15 feet wide. Lagoon sides are sloped at approximately 35 degrees. Soils contaminated with explosives are composted at a pilot plant adjacent to the lagoons.

2.3 Geology

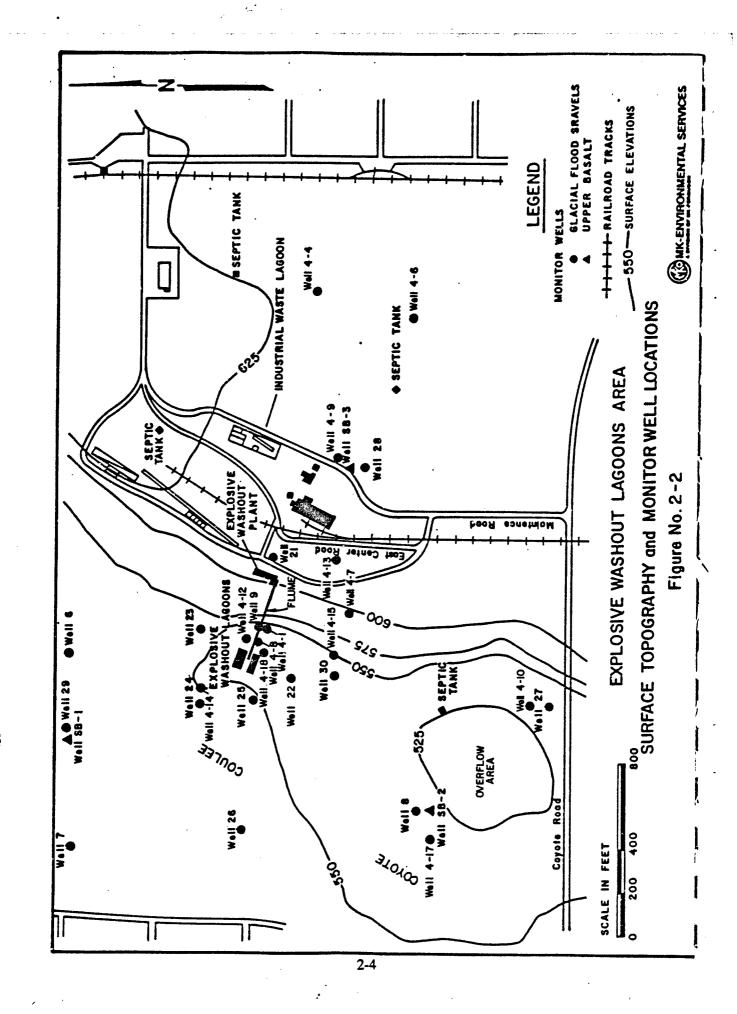
The geology of UMDA was established during earlier investigations (Table 2-1, Figures 2-3 and 2-4). Two geologic units—glacial flood gravels and the Columbia River Basalt—have been identified beneath the lagoons. The WLSSI was conducted within the glacial flood gravels.

2.3.1 Flood Gravels

Glacial flood sediments, primarily gravels, are exposed at ground surface in the vicinity of the Explosive Washout Lagoons. The flood gravels consist of rounded lag cobbles at the surface with coarse to fine sand between the clasts (Farooqui et al., 1981; Dames & Moore, 1990a and 1990b). The gravels were deposited by floods resulting from the sudden release of water impounded by glacial ice in western Montana.

The flood gravels are as much as 200 feet thick and reach their greatest thickness near UMDA. The gravels thin northward from UMDA and are only a few tens of feet thick near the Columbia River. The flood gravels pinch out southward near an elevation of 750 feet (Norton and Bartholomew, 1984; Dames & Moore, 1990a and 1990b).

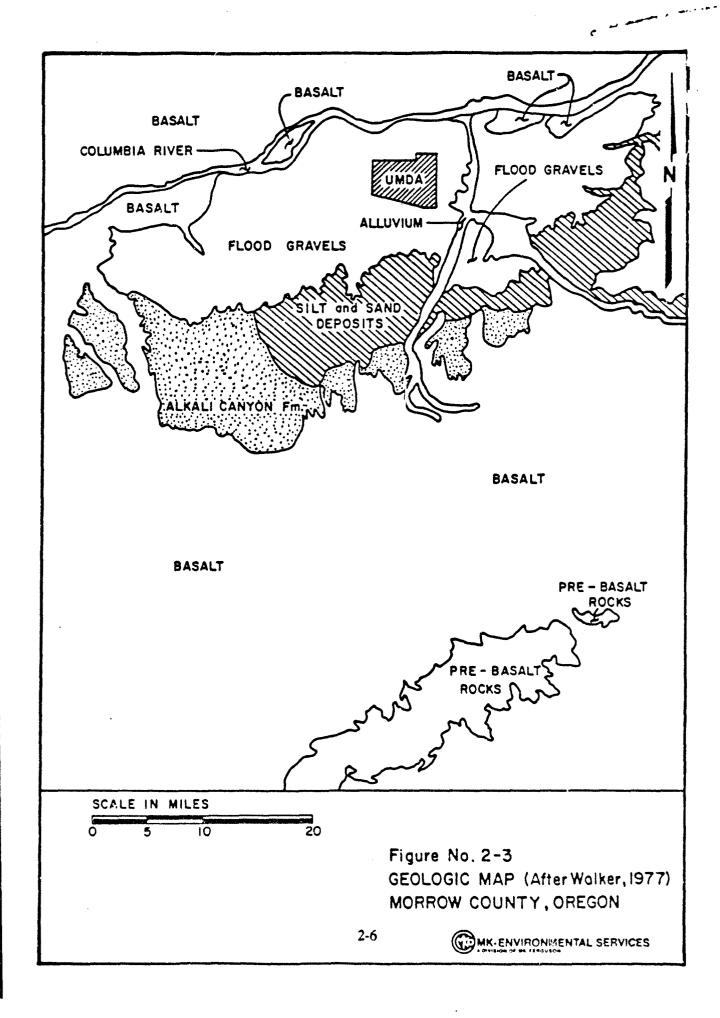
The flood gravels form an important aquifer when saturated, and groundwater usually occurs under unconfined conditions. Groundwater within the gravels may be confined by locally occurring clay beds. The saturated thickness of the unconfined aquifer varies according to the elevation of the underlying basalt and the availability of recharge. Typically, 40 feet of flood gravels are saturated in the vicinity of the lagoons.

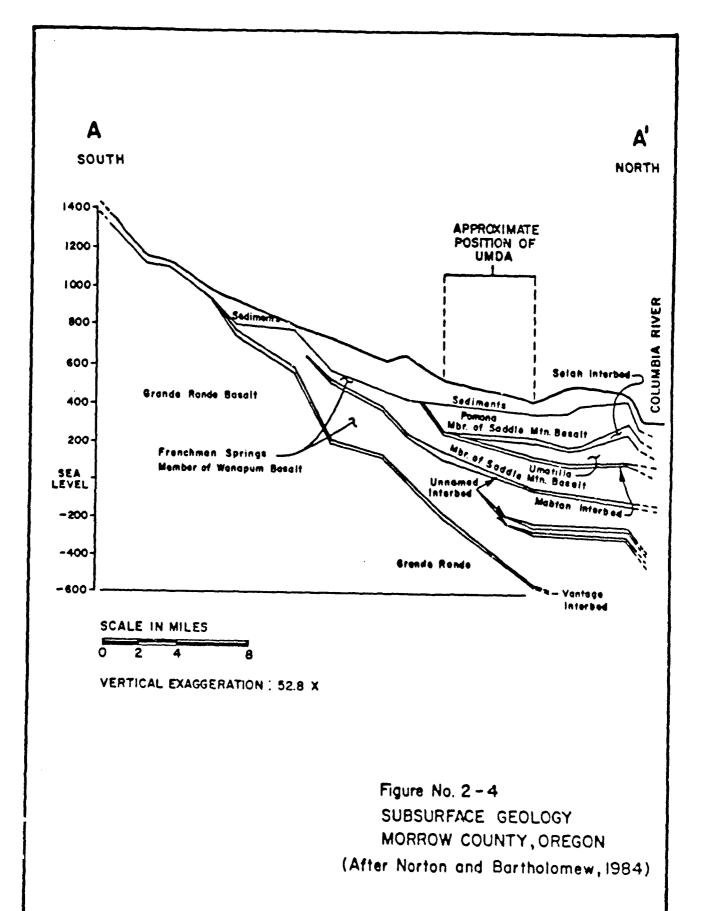


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Source: Dames & Moure, 1990 and 1990b.

S	stratigraphic C	Table 2-1	Table 2-1 Stratigraphic Column: Morrow County, Oregon
Unit	Age	Thickness (ft)	Description
Eolian deposits	Recent	0 to 10	Sand, dunes, and sheets
Alluvium	Recent	0 to 50	Silt, sand, and gravel along stream channels and flood plains
Silt and sand	Pleistocene	0 to 80	Glacial lake sediments
Flood gravels	Pleistocene	0 to 200	Basalt gravel with coarse sand, with occasional silt layers
Alkali Canyon formation	Miocene- Pliocene?	0 to 100	Consolidated basalt gravel and tufaceous silt and sand, alluvial fan and braided stream deposits
Columbia River Basalt			Flood basalts, with sedimentary interbeds (parenthesized)
Saddle Mountain Basalt Pomona Member (Selah Interbed) Umatilla Member (Mabton Interbed)		0 to 200 0 to 50 0 to 150 0 to 25	
Wanapum Basalt Frenchman Springs Member (Vantage Interbed) Grande Ronde Basalt		0 to 700 0 to 35 >2,000?	
Prebasalt Rocks	Verious	Unknown	Older sedimentary, volcanic, intrusive, and meta- morphic rocks



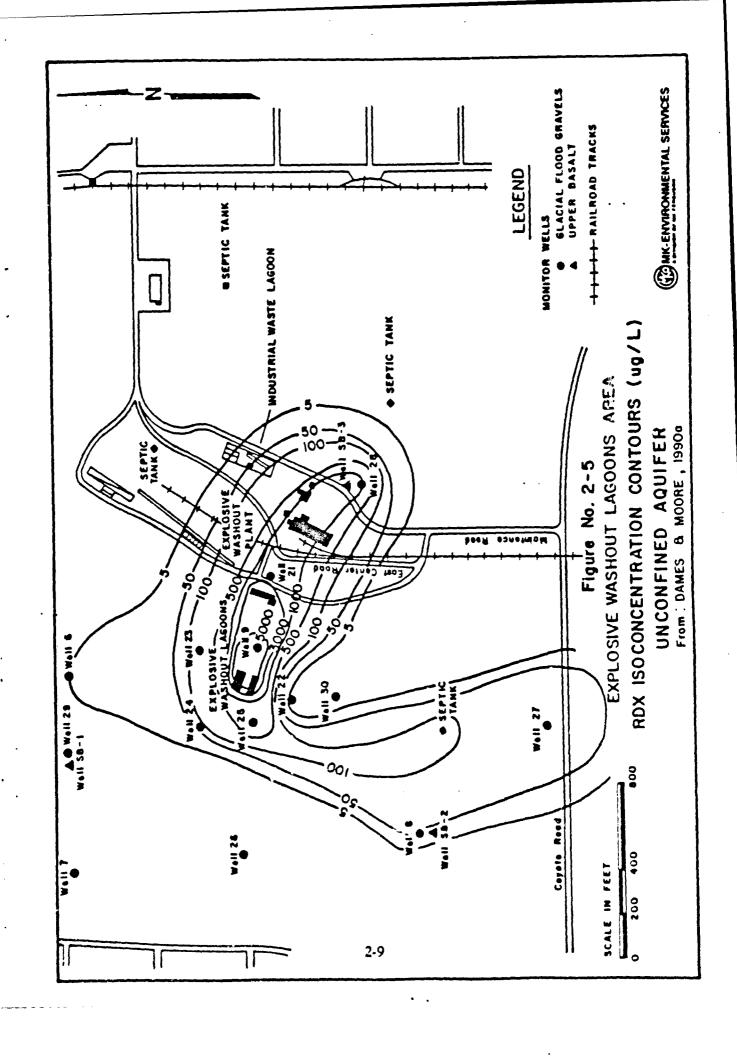


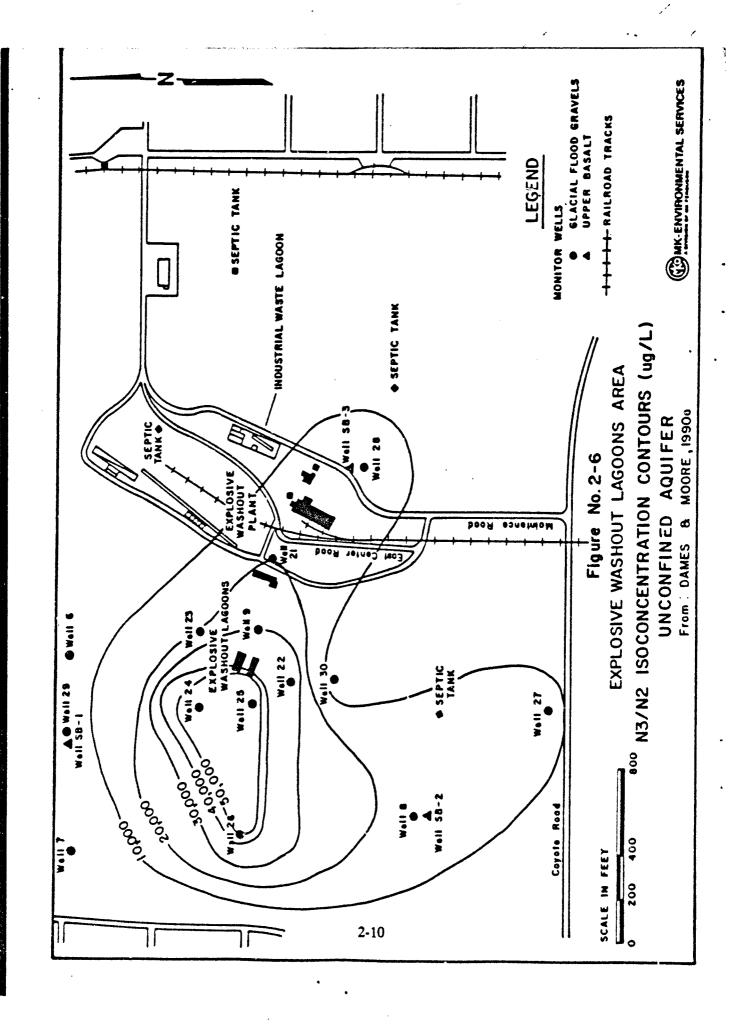
The unconfined aquifer is influenced by irrigation, pumping, and leakage from irrigation canals. The direction of groundwater flow is uncertain, though springs along the lower reaches of the Umatilla River indicate the probable discharge area. Discharge to the Columbia River is also probable.

Groundwater within the unconfined aquifer has been contaminated by explosives (Figure 2-5) and nitrate/nitrite (Figure 2-6). The contaminants appear to be moving in both a southerly and southeasterly direction. The shape of the plumes suggests that groundwater pumpage may be controlling the direction of contaminant migration.

UMDA water supply wells No. 1 and No. 2 are located south of the lagoons. Well No. 1 apparently produces from the Umatilla Basalt, and well No. 2 from the Selah interbed and the Umatilla and Upper Frenchman Springs Basalts (Table 2-2). The results of sampling show groundwater contains nitrate at wells No. 1 and 2 (Dames & Moore, 1990).

Well	Table 2 Completion Information:	l-2 UMDA Water Supply Wells
Well	Production Zone	Stratigraphic Unit
1	280-327 feet	Umatilla Basalt
2	218-360 feet	Selah Interbed Umatilla Basalt Upper Frenchman Springs Basalt
3	256-453 feet	Umatilla Basalt Upper Frenchman Springs Basalt
4	430-600 feet	Frenchman Springs Basalt
5	460-618 feet	Frenchman Springs Basalt
6	179-710 feet	Pomona Basalt Umatilla Basalt Upper Frenchman Springs Basalt
7	?-682 feet	Frenchman Springs Basalt





2.3.2 Columbia River Basalt

The Columbia River Basalt underlies the glacial flood gravels at the UMDA. The basalt erupted as a series of flood lava flows layered one on top of another. The source of the lava flows was primarily fracture systems in eastern Washington and northeastern Oregon.

Individual basalt flows were fluid and covered broad areas. The total maximum thickness of the Columbia River Basalt is unknown. The highest elevation of the top of the basalt is approximately 490 feet near the southeast corner of the UMDA. The top of basalt generally sloper northwestward.

Confined aquifers at UMDA consist primarily of interbeds between unweathered basalt flows. Geologically, the uppermost confined aquifer consists of strata interpreted to be the Selah Interbed (Table 2-1, Figure 2-4). The overlying confining unit is a moderately weathered to unweathered basalt flow, interpreted to be the Pomona Member of the Saddle Mountain Basalt (Dames & Moore, 1991).

2.4 Previous Investigations

A number of environmental investigations have been conducted at the site. The intent and results of these investigations are discussed in detail in the Enhanced Preliminary Assessment for the Umatilla Depot Activity and in the Field Sampling Plan of the RI/FS (Dames & Moore, 1990a and 1990b) and are only briefly summarized in this report. Tables 2-3 and 2-4 are summaries of soil analytical results from previous investigations in the vicinity of the Explosive Washout Lagoons.

As a result of a review of aerial photographs, the EPA determined in 1980 that changes to the environment had occurred at the site. The Environmental Photographic Interpretation Center (EPIC) compared aerial photographs taken between 1958 and 1970 and characterized the lagoons as a potentially hazardous site (EPA, 1981).

2.4.1 Battelle Environmental Contamination Survey and Assessment

Battelle performed an environmental survey at UMDA (Dawson et al., 1982). Monitor wells were constructed, and soil and groundwater samples were collected in the vicinity of the Explosive Washout Lagoons. Groundwater was sampled from monitor wells 6, 7, 8, 9, 21, 22, 23, 24, and 25 (Figure 2-2). Shallow soil samples were collected at undecumented locations within the lagoons.

						,	,						
			Summer	, of Soit Am	Table 2-3 Summery of Soft Analytical Results (µg/g)—Previous Investigations	Table 2-3 Results (μg/g)-	-Previous I	nvestigatio	•				
	***************************************											P	Page 1 of 5
Site 1D	Date	(Ref.)	Depth (a)	NIT (b)	135TNB	13DNB	246TNT	24DNT	26DNT	IIMX	RDX	SIN.	Tetryl
54-1	29-Jun-1990	(D&M)	0	16.10	32.00	<0.50	340.00	<0.42	<0.52	27.20	00:099	<2.41	<0.73
			7	12.00	25.00	<0.50	28.00	0.55	<0.52	13.10	120.00	27.10	<0.73
			4	8.38	1.09	<0.50	1.89	<0.42	<0.52	5.09	19.30	<2.41	<0.73
			90	.12.00	18.00	0.85	1.78	<0.42	<0.52	15.60	30.00	3.90	<0.73
			8	12.00	45.00	0.84	<u>-</u> 8:	<0.42	<0.52	10.90	7.87	<2.41	<0.73
S4-2	26-Jun-1990	(D&M)	0	19:0	2.19	<0.50	1.07	<0.42	<0.52	4.04	37.00	<2.41	<0.73
•			7	3.24	<0.49	<0.50	<0.46	<0.42	<0.52	3.04	11.40	<2.41	<0.73
			4	2.43	<0.49	<0.50	<0.46	<0.42	<0.52	1.59	3.75	<2.41	<0.73
			9	1.59	<0.49	<0.50	<0.46	<0.42	<0.52	0.86	3.40	<2.41	<0.73
			∞	1.19	<0.49	<0.50	. <0.46	<0.42	<0.52	<0.67	3.10	<2.41	<0.73
S4-3	26-Jun-1990	(D&M)	0	1.98	<0.49	<0.50	<0.46	<0.42	<0.52	4.70	13.00	<2.41	<0.73
			7	2.19	< 0.49	<0.50	<0.46	<0.42	<0.52	\$.00	16.70	<2.41	<0.73
			4	< 0.60	<0.49	<0.50	<0.46	<0.42	<0.52	1.85	5.51	<2.41	<0.73
.12			9	0.89	< 0.49	<0.50	<0.46	<0.42	<0.52	2.25	9.80	<2.41	<0.73
			8	1.41	<0.49	<0.50	<0.46	<0.42	<0.52	1.55	5.22	<2.41	<0.73
S4-4	26-Jun-1990	(D&M)	0	5.58	1.36	< 0.50	3.69	<0.42	<0.52	21.90	110.00	<2.41	<0.73
			7	7.68	<0.49	<0.50	2.65	<0.42	<0.52	7.95	31.00	<2.41	<0.73
				2.40	<0.49	<0.50	0.72	<0.42	<0.52	6.37	30.00	<2.41	<0.73
			9	0.97	<0.49	<0.50	<0.46	<0.42	<0.52	0.72	6.50	<2.41	<0.73
			*	0.59	<0.49	×0.50	<0.46	<0.42	<0.52	<0.67	2.60	<2.41	<0.73
S4-4 Dup.	26-Jun-1990	(D&M)	80	0.62	<0.49	<0.50	<0.46	<0.42	<0.52	<0.67	3.05	<2.41	<0.73
\$4-5	28-Jun-1990	(D&M)	0	11.20	29.00	<0.50	3400.00	12.00	<5.20	68.00	450.00	<2.41	<0.73
			7	15.50	47.00	<0.50	\$500.00	<21.00	< 26.00	81.00	420.00	<2.41	<0.73
			4	8 74	31.00	0.55	3800.00	<21.00	<26.00	47.00	220.00	<2.41	<0.73
			9	9.73	16.90	<0.50	1100.00	<21.00	<26.00	15.00	00.99	<2.41	<0.73
			∞	12.50	61.6	<0.50	1.83	0.51	<0.52	1.25	22.40	<2.41	<0.73

				Summary	, of Soll An	Tab alytical Resu	Table 2-3 tesuits (µg/g)	Table 2-3 Summary of Soll Analytical Results (µg/g)—Previous Investigations	Investigatio	12				
													1	Puge 2 of 5
	Site 11)	Date	(Ref.)	Depth (a)	NIT (b)	LISTNB	13DNB	246TNT	24DNT	26DNT	нмх	RDX	8 N	Tetry!
Ś	9-1-9	28-Jun-1990	(D&M)	0	99.0	<0.49	<0.56	0.87	<0.42	<0.52	1.39	0.73	<2.41	<0.73
				7	<0.60	< 0.49	<0.50	<0.46	<0.42	<0.52	0.69	<0.59	<2.41	<0.73
-				4	<0.60	<0.49	<0.50	< 0.46	<0.42	<0.52	0.72	<0.59	<2.41	<0.73
				•	09.0y	< 0.49	<0.50	<0.46	<0.42	<0.52	0.72	<0.59	<2.41	<0.73
				∞ ,	<0.60	<0.49	<0.50	<0.46	<0.42	<0.52	1.33	16.0	<2.41	<0.73
****				50	3.91	<0.49	<0.50	0.78	<0.42	<0.52	<0.67	8.63	<2.41	<0.73
				99	5.53	<0.49	<0.50	19:0	<0.42	<0.52	<0.67	22.30	< 2.41	<0.73
Salar				9	2.33	17.00	<0.50	8.59	1.05	<0.52	7.04	11.20	<2.41	<0.73
				20	2.34	22.50	<0.50	17.80	2.06	<0.52	13.40	3.61	<2.41	<0.73
Ŋ	St.7	28-Jun-1990	(D&M)	0	2.14	<0.49	< 0.50	<0.46	<0.42	<0.52	<0.67	<0.59	<2.41	50.00
				2	1.09	<0.49	<0.50	<0.46	<0.42	<0.52	<0.67	<0.59	<2.41	<0.2
****				4	0.66	<0.49	<0.50	<0.46	<0.42	<0.52	0.98	<0.59	<2.41	<0.73
de area				9	1.05	0.93	<0.50	<0.46	<0.42	<0.52	0.94	<0.59	<2.41	<0.73
				80	1.19	0.99	<0.50	<0.46	<0.42	<0.52	1.21	<0.59	<2.41	<0.73
ন্ত 13	S4-7 Dup.	28-Jun-1590	(D&M)	9	0.88	0.97	<0.50	<0.46	<0.42	<0.52	<0.67	0.70	<2.41	<0.73
Š	8-1-8	29-Jun-1990	(D&M)	0	4.20	3.99	<0.50	53.00	<0.42	<0.52	11.30	100.00	<2.41	<0.73
				7	1.87	<0.49	<0.50	0.82	<0.42	<0.52	1.27	4.55	<2.41	<0.73
-				4	1.49	<0.49	<0.50	<0.46	<0.42	<0.52	0.81	3.02	<2.41	<0.73
				9	1.05	<0.49	<0.50	<0.46	<0.42	<0.52	<0.67	1.83	< 2.41	<0.73
t e an				••	<u>.</u>	<0.49	<0.50	<0.46	<0.42	<0.52	0.71	2.04	<2.41	<0.73
				97	2.47	<0.49	<0.50	<0.46	<0.42	<0.52	<0.67	9.12	<2.41	<0.73
				2	2.47	<0.49	<0.50	< 0.46	<0.42	<0.52	<0.67	18.70	<2.41	< 0.73
				9	4.31	11.40	<0.50	8:38	1.10	<0.52	8.3	26.00	< 2.41	<0.73
				20	88.		<0.50	12.50	1.74	<0.52	5.97	2.23	<2.11	<0.73
₹		05-Oct-1989	(WES)c	0.1.	٠	•	•	45582	•	•	<127.0	86>		-
A-2	2	05-Oct-1989	(WES)c	.9-0		•	•	819	٠	•	0.7	2.13		
A-3		05-Oct-1989	(WES)c	.1-0	·	٠	·	87623		•	485	731		•
											2	:		•

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-						Ē	Table 2-3							
				Summer	y of Soil An	Summary of Soil Analytical Results (µg/g,Previous Investigations	nits (µ z/k .	Previous !	nvestigatio	2				
													4	Puge 4 of 5
	Site 1D	Date	(Ref.)	Depth (a)	NIT (b)	135TNB	I3DNB	246TNT	24DNT	26DNT	IIMX	RDX	BN	Tetryl
	EWL-4	27-Apr-1988	(WES)	3.1	<500	<2.09	<6.59	<1.92	<0.42	<0.40	<1.27	<0.98	<0.42	<0.25
-				5.1	< 500	<2.09	<0.59	<1.92	<0.42	<0.40	<1.27	<0.98	< 0.42	<0.25
				7.1	< 500	<2.09	<0.59	<1.92	<0.42	<0.40	<1.27	<0.98	<0.42	<0.25
			,	10.1	.< 200	<2.09	<0.59	<1.92	<0.42	<0.40	<1.27	<0.98	<0.42	<0.25
				20.3	< 500	<2.09	<0.59	<1.92	<0.42	<0.40	<1.27	<0.98	<0.42	<0.25
				30.1	< 500	<2.09	<0.59	<1.92	<0.42	<0.40	<1.27	<0.98	<0.42	<0.25
				40.7	< 500	6.4	<0.59	4.40	0.99	<0.40	7.50	98.9	<0.42	<0.25
				50.2	< 500	<2.09	<0.59	4.40	0.57	<0.40	<1.27	<0.98	<0.42	<0.25
1	S.Lag. S-54	09-Mar-1981	(BAT)	0.	100	NA	NA	38	<0.41	<0.39	NA	350	A X	<0.75
	S.Lag. S-51	09-Mar-1981	(BAT)	.0	NA	NA	NA	2800	4.3	5.4	٧X	<8.9	A N	12
	S-125	23-Mar-1981	(BAT)	2.5	NA	AN	N.	180	<0.41	<0.39	¥	260	NA A	<0.75
-15	S-127	23-Mar-1981	(BAT)	7.5*	NA	NA	AN	38	<0.41	<0.39	٧×	43	Y.	<0.75
	Samples from overflow area:	flow area:												
	EWLOVRFW-1	04-May-1988	(WES)	.8-0	NA	<2.09	<0.59	<1.92	<0.42	< 0.40	<1.27	<0.98	<0.42	<0.25
-	54-9	13-Jul-1990	(M&d)	0	3.20	<0.49	<0.50	<0.46	< 9.42	<0.52	<0.67	<0.59	<2.41	£7.0>

			Summar	y of Soll An	Table 2-3 Summary of Soll Analytical Results (µg/g)—Previous Investigations	Table 2-3 Results (μg/g)-	-Previous I	nvestigatio	1				
												2	Page 5 of 5
Site 1D	Date	(Ref.)	Depth (n)	NIT (b)	135TNB	13DNB	246TNT	24DNT	TNG92	IIMX	RDX	S Z	Tetryl
S4-10	13-Jul-1990	(D&M)	0	1.53	<0.49	<0.50	<0.46	<0.42	<0.52	<0.67	<0.59	<2.41	<0.73
84-11	13-Jul-1990	(D&M)	0	3.85	<0.49	<0.50	<0.46	<0.42	<0.52	<0.67	<0.59	<2.41	<0.73
a	 a Only NO3 was analyzed. (a) a When a single value is listed, the depth indicated represents the top of the sampling interval. (b) a Nitrogen as nitrate + nitrite. (c) a Data was collected by Roy F. Weston, Inc. but is not published. Sample locations are shown on Figure 2-7. BAT a Battelle Final Report, 1982, Environmental Contamination Survey and Assessment of U_{1.1}atilla Depot Activity. D&M = Dames & Moore, currently unpublished data from the ongoing Remedial Investigation/Feasibility Study of the I WES = Roy F. Weston, Inc., March 1989, Draft Final Report, Task Order 7, Umatilla Depot Activity Remedial Investigation and analyzed. Note: Additional data from the January 1990 investigation performed by Roy F. Weston, Inc., are presented in Table 2-4. 	ted, the depth y F. Weston, I 82, Environme ly unpublished ch 1989, Drafi nuary 1990 inv	oth indicated in the incompanies of the incompanies	represents that the publishe mination State ongoin out, Task O	indicated represents the top of the sampling interval. Inc. but is not published. Sample locations are shown on Figure 2-7. Intal Contamination Survey and Assessment of Ulmatilla Depot Activity. I data from the ongoing Remedial Investigation/Feasibility Study of the Umatilla Depot Activity. I Final Report, Task Order 7, Umatilla Depot Activity Remedial Investigation. estigation performed by Roy F. Weston, Inc., are presented in Table 2-4.	ce sampling locations an ssessment of Investigation atilia Depo	interval. re shown on of Unatilia on/Feasibility R	r Figure 2-: Depot Acti y Study of emedial In	7. ivity. the Umati	ila Depot ∤	Activity.		

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	Soil Analytical Results January 1990 (µg/g)	
Sample (Depth)	Field Analysis 2,4,6-TNT	HPLC 2,4,6-TNT
A1 (0 to 6 inches)	NA	15,500
A2 (18 inches)	990	2,250
B1 (0 to 4 inches)	3,377	7,430
B2 (4 to 8 inches)	NA	8,350
C1 (0 to 6 inches)	3,068	4,020
C2 (12 inches)	1,686	1,170 .
D (0 to 6 inches)	4,250	8,510
E (0 to 6 inches)	2.438	3,980

78

NA

96,078

6,362 664

NA

101

130

1,150

38,600

7,680

1,290

240

180

Table 2-4

See Figure 2-7 for sample locations.

F (0 to 6 inches)

G (0 to 6 inches)

H (0 to 6 inches)

I (0 to 6 inches)

J (0 to 6 inches)

K (0 to 6 inches)

L (0 to 6 inches)

NA = Analysis results not available.

HPLC = High-pressure liquid chromatography.

Source: Dames & Moore, 1991a and 1991b; Roy F. Weston, Inc., 1991.

The Battelle study indicated that soil and groundwater in the vicinity of the washout lagoons were contaminated with explosives. Analysis of soil samples indicated the presence of 2,6-DNT, 2,4,6-TNT, RDX, 2,4-DNT, tetryl, and nitrate/nitrite (Table 2-3). Explosives, including 2,4,6-TNT, 2,4-DNT, 2,6-DNT, RDX, HMX, and nitrate were detected in groundwater samples. The highest concentrations were detected in wells 9, 21, 22, 23, 24, and 25. The data are reported by Dames & Moore (1990a and 1990b).

2.4.2 Century Environmental Services and Century West Engineering Groundwater Monitoring Reports

In March and August 1986, Century Environmental Services (1986a and 1986b) conducted groundwater sampling and analysis of the pre-existing Battelle wells. Samples were analyzed for the following parameters: pH, TNT, DNT, RDX, HMX, tetryl, and nitrate (Dames & Moore, 1991). In February and August 1987, Century West Engineering Corporation (1987a and 1987b) conducted additional groundwater sampling of the same wells. Samples were analyzed for the parameters mentioned above.

2.4.3 Ana-Lab Corporation Groundwater Monitoring Studies

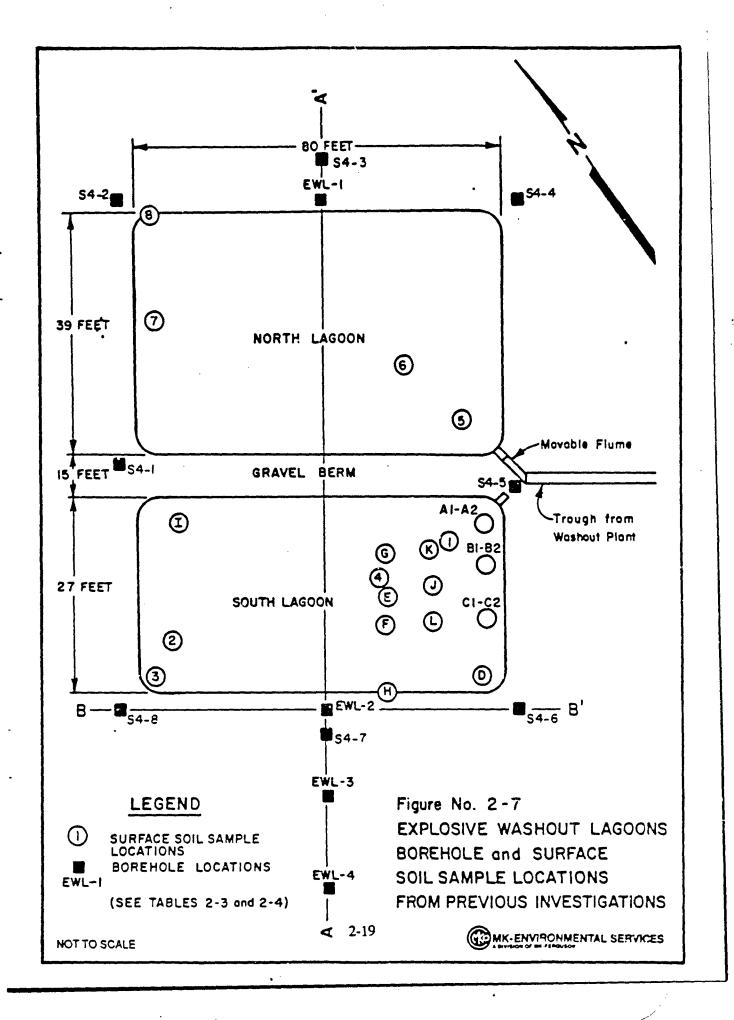
In August and November 1988, Ana-Lab Corporation (1988) completed groundwater studies at UMDA. Groundwater samples were analyzed for nitrogen as nitrate + nitrite, TNT, DNT, tetryl, RDX, and specific conductivity (Dames & Moore, 1991).

2.4.4 Roy F. Weston, Inc., Investigations

Roy F. Weston, Inc. (Weston), conducted a field investigation in April and May of 1988 that included construction of additional monitor wells, collection of soil samples from an overflow area (Figure 2-2) and from four boreholes (EWL-1, EWL-2, EWL-3, and EWL-4) drilled to the water table, and collection of groundwater samples (Roy F. Weston, Inc., 1989). The borehole locations are shown in Figure 2-7.

Laboratory results of samples collected from boreholes EWL-1, EWL-2, EWL-3, and EWL-4 (Table 2-3) indicated elevated levels of contamination (1,3,5-TNB, 2,4,6-TNT, 2,4-DNT, HMX, and RDX) in soils adjacent to the lagoons. Contamination was also identified in sediments immediately above the water table in boreholes more distant from the lagoons. Explosives and nitrate/nitrite were detected in groundwater samples.

The data suggest that soil contamination outside and adjacent to the lagoons may have been caused by spillage and possibly by reconstruction of the lagoons. The groundwater system appears to be a source of contamination for soils immediately above the water table.



Weston also sampled surface soils within the lagoons in October 1989. The samples were analyzed to provide data required for the design of a composting pilot test. Four soil samples were collected in each of the lagoons. The sample locations (Nos. 1 through 8) are shown on Figure 2-7. The explosives HMX, RDX and 2,4,6-TNT were detected in the samples (Table 2-3).

Additional soil samples were collected in January 1990 for final design of the pilot test composting system. These samples were analyzed both in the field and in the laboratory (Table 2-4). Analytical results showed variable concentrations of contaminants in surface soils. Sample locations (A through L) are shown in Figure 2-7.

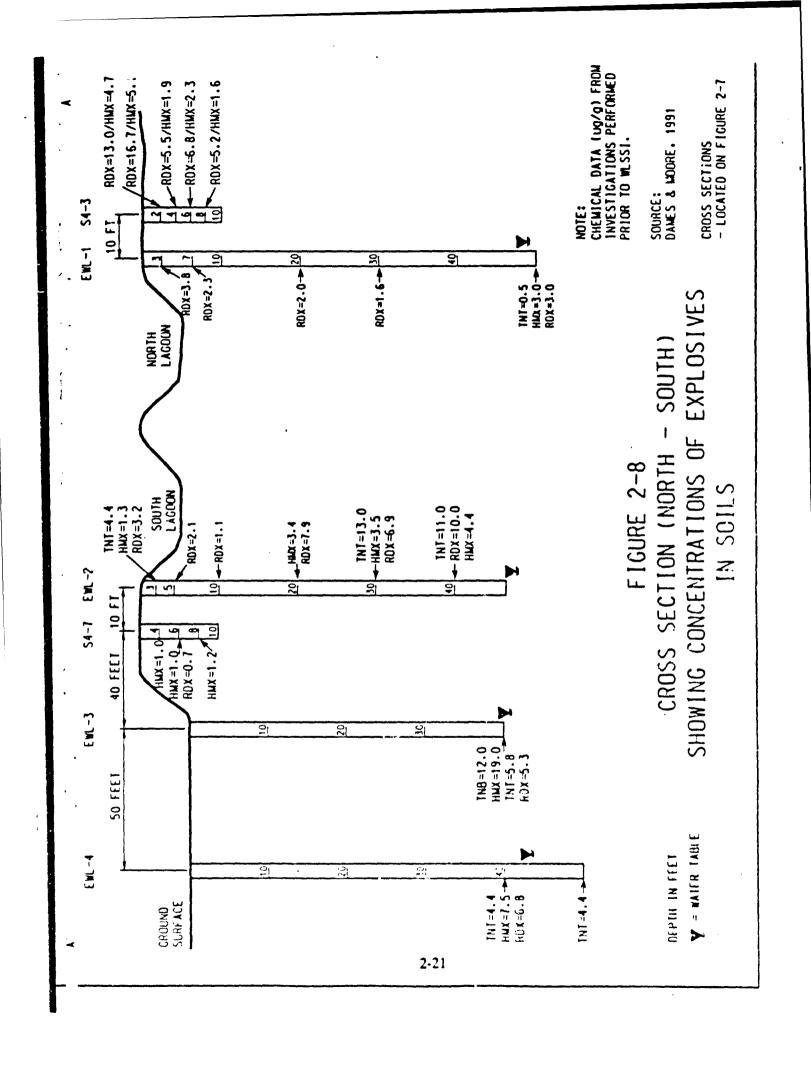
2.4.5 Dames & Moore Investigations

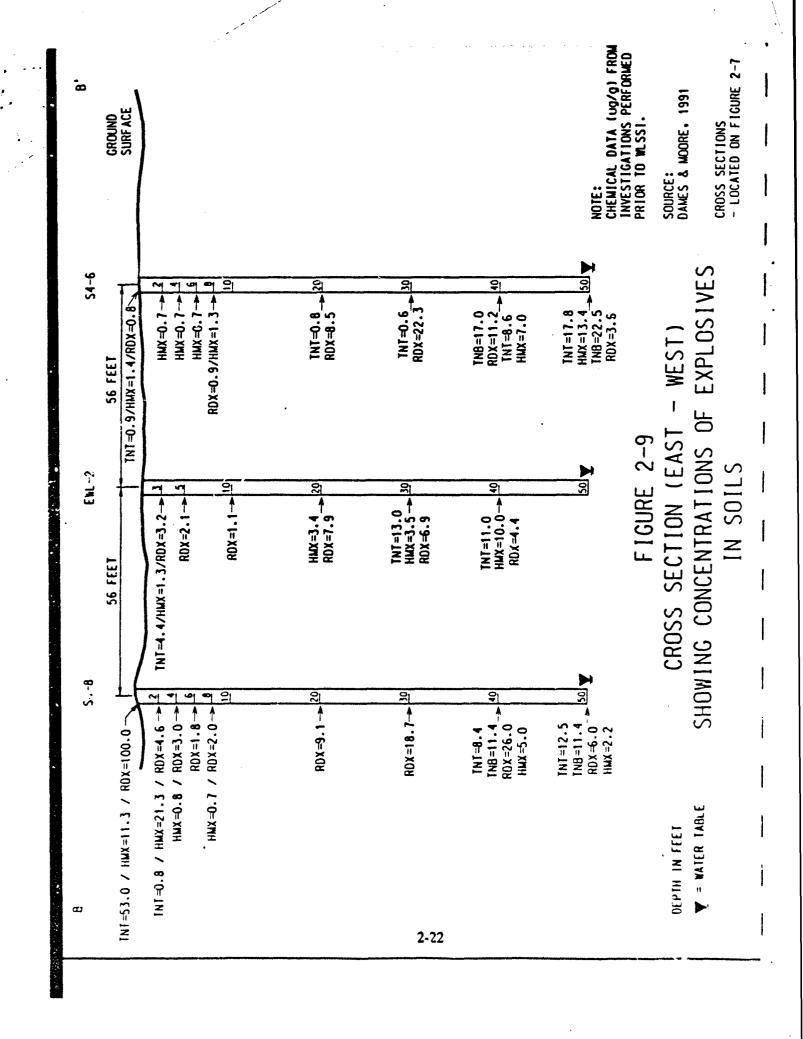
Dames & Moore evaluated hydrogeologic data and the evidence of contamination from the lagoons developed in previous investigations and proposed further studies. Based on their evaluation, nitrate and explosives were determined to be contaminants requiring remediation. Potential exposure pathways and receptors were evaluated, preliminary remedial action alternatives were identified, and data requirements were addressed in the report (Dames & Moore, 1990a). They concluded that the vertical and areal extent of soil contamination in the vicinity of the lagoons needed to be delineated, and recommended additional drilling.

During the subsequent program, eight boreholes, S4-1 through S4-8 (Figure 2-7), were drilled around the periphery of the lagoons in June 1990 (Dames & Moore, 1991). No boreholes were drilled within the lagoons. Boreholes S4-6 and S4-8 were drilled to a depth of 50 feet, and the remaining boreholes were 10 feet deep. Samples were collected at 2-foot intervals between 0 and 10 feet, and at 10-foot intervals below 10 feet.

The greatest concentrations of explosives were detected at and near the ground surface to the west (S4-1), east (S4-5), and southwest (S4-8) of the lagoons. The contaminants include 2,4,6-TNT, 1,3,5-TNB, and RDX (Table 2-3). Nitrate was also detected in near-surface soil samples. Highest contaminant levels were detected in borehole S4-5, which is near the movable flume at the end of the wash water discharge trough. In the surface sample, 2,4,6-TNT was detected at 3,400 μ g/g, and RDX was detected at 450 μ g/g (Table 2-3).

In general, concentrations of contaminants decreased with depth below ground surface but increased near the top of the underlying water table. This distribution of contaminants was similar to what was seen in the EWL boreholes drilled in 1988 (Roy F. Weston, Inc., 1989). In samples taken near the water table, 1,3,5-TNB, 2,4,6-TNT, HMX, and RDX were detected in concentrations exceeding 10 µg/g in boreholes EWL-2, EWL-3, S4-6, and S4-8 (Table 2-3, Figures 2-8 and 2-9).





Chapter 3
Subsurface Investigation

Chapter 3 Subsurface Investigation

To further characterize soil contamination beneath the UMDA Explosive Washout Lagoons, the WLSSI was conducted in late 1991. This consisted of drilling, logging, and sampling of soils from four boreholes. Drilling was terminated at the intersection of the underlying water table, which was approximately 48 feet below the bottom of the lagoons. Previous drilling investigations encountered groundwater at depths between 40 and 50 feet.

3.1 Borehole Locations

Four boreholes (S4B-5, -6, -7 and -8) were drilled into the unsaturated zone beneath the lagoons during the WLSSI. The boreholes were located in the west and east sides of the lagoons (Figure 3-1) where subsurface data were lacking. Boreholes S4B-5 and S4B-6 were drilled into the north lagoon, and S4B-7 and S4B-8 were drilled into the south lagoon. Precise location data provided from a site survey performed on November 15, 1991, are presented in Table 3-1.

3.2 Mobilization

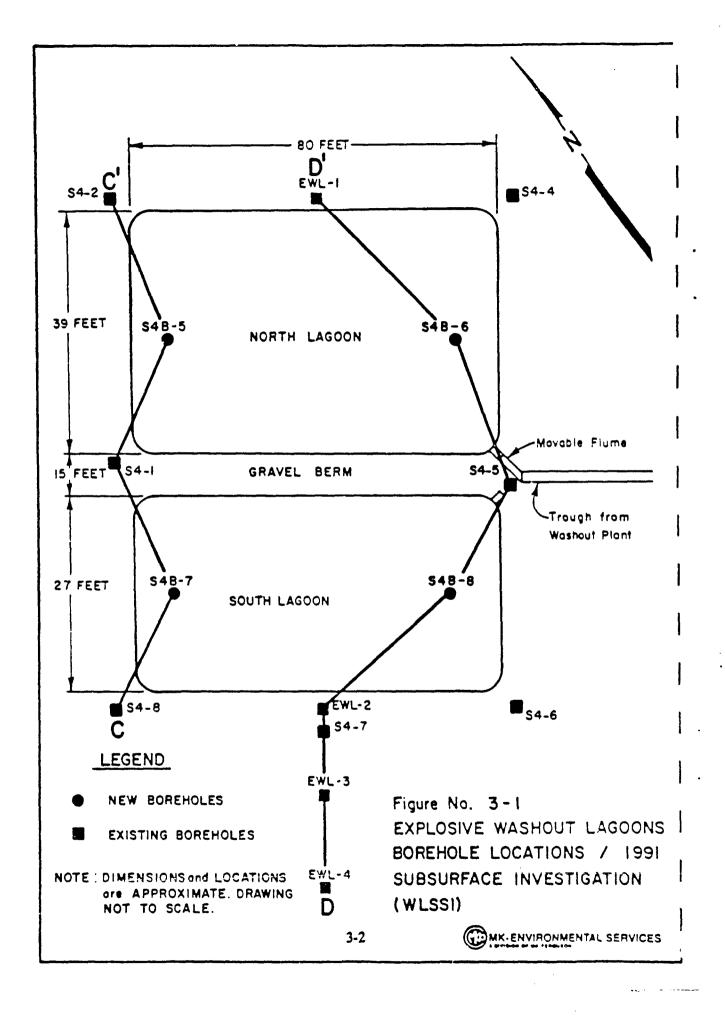
Layne Environmental Services, Inc. (Layne) of Tacoma, Washington, drilled the four boreholes. A truck was parked immediately adjacent to the rig to supply pipe during drilling activities. Maneuverability within the lagoons was limited, and UMDA provided a bulldozer to assist the drill rig with entering and exiting.

Arrangements for access to UMDA were made in advance. Clearance for base access was obtained at the facility front gate and in the administrative area. Vehicle, equipment, and camera passes were obtained from UMDA, and all vehicles traveling beyond the administrative area were equipped with fire extinguishers.

The UMDA Safety Officer conducted a health and safety orientation for all WLSSI personnel before drilling began. Hazards and operational constraints were identified during the orientation.

3.3 Drilling and Sampling Activities

Four boreholes were drilled beneath the lagoons to a depth corresponding to the top of the underlying water table. Soil samples were collected at depth-specific intervals.



			T Boring Locat	Table 3-1 Boring Locations and Elevations ¹	ations¹		
	State P	te Plane (A)	NTU	UTM (m)			
	Northing	Easting	Northing	Easting	Elevation ²	Comments	
Boring No.							1
S4B-5	790205.87	2273001.33	311443.39	5077087.97	543.65	Top of 2.5-ft diameter concrete plug, plug depressed 1.0 ft	
S4B-6	790179.74	2273064.41	311480.03	5077145.58	545.02	Top of 2.5-ft diameter concrete plug, plug depressed .25 ft	
S4B-7	790148.80	2272980.55	311393.60	5077122.77	543.96	Top of 3.0-ft diameter concrete plug, plug depressed .2 ft	
S4B-8	790121.36	2273041.49	311427.76	5077180.22	545.05	Top of 3.0-ft diameter concrete plug, plug depressed .2 ft	
Survey Benchmarks	arks						7
Survey Monument 20	790810	2273770	311573	5077891	598.2		7
Survey Monument 21	789542	2272562	311188	5077521	537.3		_
Survey Monument 22	789776	2273251	311701	5077583	605.4		
Survey Monument 23	790029	2274002	311633	5077650	620.8		7
¹ Survey performed November 15, 1991, by CH2M HILL. ² Feet Msl.	ned November	r 15, 1991, by	СН2М НІГГ				_

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3.3.1 Drilling Method

A Drill Systems AP-1000 rig and the dual-wall reverse-circulation air rotary method were used for drilling at the site. This method was successfully used for drilling boreholes and for constructing monitor wells during previous investigations at UMDA. Typically, 50 feet of soils were penetrated, and required samples were taken from each borehole over a period of approximately 4 hours.

The dual-wall reverse-circulation air rotary method uses a 6-inch-inside-diameter (ID), double-walled drill pipe that is advanced into the ground by the percussion action of an above-ground pile hammer. The borehole is simultaneously drilled and temporarily cased. During drilling, compressed air (750 cfm/350 psi) is forced down the annular space between the inner and outer pipe. The air emerges through openings in the bottom of the casing, and cuttings are lifted up the inner pipe in a reverse-circulation manner.

An air compressor capable of achieving high up-hole velocities was used to remove drill cuttings. Cuttings were discharged through a cyclone separator assembly mounted on the drill rig. Return air and downhole vapors were vented from the top of the cyclone separator. Cuttings fell by gravity from the bottom of the cyclone into 55-gallon steel drums. The filled drums were marked to identify borehole number and depth, and placed in the storage area adjacent to the open evaporation basins, near the decontamination pad.

Nonsparking beryllium shovels were used to remove surface soils in a 1.5-foot radius around boreholes to a depth of 1.5 feet prior to the commencement of drilling. The removed soil was placed in 55-gallon steel drums and grouped separately at the cuttings and waste storage area.

Measures were taken to prevent soils from being contaminated by drilling-related materials and to protect workers and the surrounding environment from exposure to potential contaminants. A filter was installed on the compressor to prevent oil and foreign debris from entering the cuttings recovery system. Nonhydrocarbon-based lubricants were used on the threads of downhole drilling equipment. A water mist was sprayed into the air system while penetrating soils to minimize fugitive dust. Plastic sheeting was placed beneath the rig before drilling began to minimize the amount of contact between the workers, rig, tools, and drill pipe and the underlying contaminated soils.

Water for drilling and decontamination of equipment was obtained from UMDA water supply well No. 3, located near the perimeter of the UMDA on North Patrol Road. This well is a source of nonchlorinated groundwater from the Columbia River Basalt aquifer. A tank truck was used to transport water from the well to the lagoons (for drilling) or to the decontamination area. Decontamination of drilling equipment is discussed in Section 3.6.1.

3.3.2 Sampling Method

A 2.5-inch by 18-inch split-barrel sampler was used to collect soil samples. The split-barrel sampler was inserted through the drill bit and driven 18 inches into undisturbed soil. Approximately 14 soil samples were collected at pre-determined depths from each borehole. Samples were taken at 2-foot intervals from ground surface to a depth of 10 feet, and at 5-foot intervals from a depth of 10 feet to the water table. Borehole data including total depth, number of samples taken, and depth to groundwater, are presented in Table 3-2.

Вог	Table 3 rehole Data Obtained i		nyling
Borehole	Total Depth ¹	No. of Samples	Depth to Groundwater ¹
S4B-5	51.5 feet	14	47.1 feet
S4B-6	51.5 feet	14	48.0 feet
S4B-7	48.0 feet	13	47.0 feet
S4B-8	51.5 feet	14	48.0 feet
¹ From ground surf	ace.		

Split-barrel samplers were placed on clean aluminum foil after retrieval. Soil material was removed from the sampler using stainless steel trowels. The sample was split lengthwise and one half was placed into the appropriate container supplied by the analytical laboratory. The remaining half of the sample was placed into a container and archived in a storage warehouse at UMDA. Sample recovery using the split-barrel system was sufficient (67 percent or greater) to preclude the necessity for alternative collection methods.

3.3.3 Field Quality Control Samples

Soil samples were collected in accordance with the FSP and the amended Quality Assurance Project Plan (CH2M HILL and MKES, 1991). Quality control samples were collected so that the accuracy of reported analytical values could be reviewed, and the possibility of cross-contamination or contamination of soils by external factors could be evaluated.

3.3.3.1 Blanks

One laboratory-prepared trip blank was included in each shipment of samples designated for analysis of volatile organic compounds. A total of three trip blanks were delivered to the laboratory for analysis of TCL volatiles.

3.3.3.2 Duplicates

Cne duplicate sample was collected for each borehole drilled. Duplicates were taken at 30.0 feet in S4B-5, 2.0 feet in S4B-6, 45.0 feet in S4B-7, and 15.0 feet in SNB-8. The samples were identified according to the USATHAMA designation code.

Duplicate samples were taken by placing soils obtained from the split-barrel sampler into a pile of uniform thickness on clean aluminum sheeting. The pile was quartered using a stainless-steel trowel. Opposite quarters were sent to the laboratory as the sample and the duplicate sample. Duplicate samples were analyzed for the same set of parameters as the original sample. The analysis program is discussed further in Section 4.0.

3.3.3.3 Decontamination or Rinsate Blank

Decontamination water was sampled each day during the supplemental investigation. Also, a water sample was collected following the initial steam cleaning of the bit before drilling began. Decontamination blanks were taken by pouring organic-free deionized water over the drill bit or split-barrel sampler after decontamination by steam-cleaning. The blanks were analyzed for the total analyte list discussed in Section 4.0.

3.3.3.4 Water Blank

The drilling and decontamination water pumped from UMDA well No. 3 was sampled from the water truck. The blank was designated "well-3" and analyzed for the total analyte list (Section 4.0).

3.4 Sample Handling

Soil samples were placed into appropriate glass containers and packed in coolers supplied by the Environmental Science and Engineering, Inc. (ESE), Laboratory, a USATHAMA CLASS laboratory. The appropriate preservatives were added to the containers in the field immediately before the samples were taken. All containers were immediately placed in coolers and chilled with ice.

3.4.1 Sample Containers

Soil samples were placed in amber glass jars provided by ESE. Three 0.5-liter amber glass jars were used for each sample analyzed for explosives. Two jars were sent to ESE for analysis, and one jar was archived in a warehouse at UMDA for potential future analysis. In addition, two 60-ml amber glass vials were required for nonexplosive parameters from samples taken at 0, 4, and 10 feet from each boring.

Containers for rinsate blanks and the water sample from supply well No. 3 were also supplied by ESE. Seven 1-liter amber glass jars were required for each sample for the analysis of explosives, TCL semivolatiles, pesticides, PCBs, and alkalinity. No preservatives were added to the 1-liter jars. Additionally, two, 1-quart cubic containers were required for the analysis of major ions and trace elements. The sample for trace elements, Fe, and Mn was preserved with nitric acid; and the sample for major ions was preserved with sulfuric acid. Four 60-ml amber glass vials were used for the sample analyzed for TCL volatile organic compounds. The samples for volatiles were preserved with hydrochloric acid.

3.4.2 Sample Packing

Sample containers were completely filled with soil material. The container was sealed with an USATHAMA-approved lid. Each sample label was completed with the following information:

- Date and time of ample collection
- Field sample number
- Borehole site ID
- Sample depth or interval
- USATHAMA designation (combination of site ID and depth)
- Analyte(s)
- Preservatives (if any)
- Project and task number
- Sampler's initials

The above information was also recorded in the sample logbook.

3.4.3 Sample Shipment

ESE provided the coolers and packaging materials required for shipment of samples to the laboratory. Sample containers were carefully packed in the coolers to avoid breakage and chilled with ice. The coolers were closed and secured with tape. Signed and dated custody seals were attached in a manner requiring the seal to be broken in order to open the container.

Two sample shipments were sent to the laboratory. The first shipment was sent on Saturday, November 2, 1991, and delivery was made on November 4, 1991. The second

shipment was sent on Monday, November 5, 1991, and was received within 24 hours. ESE was informed of the shipping schedule so that specified laboratory holding times would not be exceeded.

3.4.4 Chain-of-Custody Forms

The original chain-of-custody forms were placed in the coolers shipped to the laboratory. Sample designation, date and time of collection, sample depth, borehole number, and type of preservative (if any) were documented on the forms. Copies of the original forms are in Appendix A.

3.5 Grouting

After completion of drilling, boreholes were backfilled with a cement-bentonite grout slurry. The grout consisted of 20 parts cement to 1 part bentonite with a maximum of 8 gallons of water per sack of cement. Grout materials were mixed on site and pumped through the dual-wall casing beginning at the bottom of a borehole and working upward. A slurry pump was used for grout placement.

3.6 Decontamination Procedures

Decontamination procedures developed for drilling and sampling equipment and personnel are discussed below.

3.6.1 Drilling Equipment

A central decontamination area had previously been constructed northeast of the lagoons (Figure 1-1). The decontamination pad has a grate-covered water collection sump. Water for washing or steam cleaning of equipment was pumped from the collection sump for disposal in open evaporation basins located approximately 110 feet to the east. The drill rig, cyclone assembly, tools, and equipment were steam-cleaned at the central decontamination area before drilling began and after completion of the drilling program.

During the drilling program, the tires and the back of the rig were steam cleaned on plastic sheets at the edge of the washout lagoons. This procedure was done after the completion of each borehole to prevent spreading of contaminated soil beyond the perimeter of the lagoons. Wash water was allowed to flow back into the lagoons. In addition, the back portion of the drill rig, cyclone assembly, tools, and equipment were steam-cleaned at the central decontamination area after completion of each borehole.

3.6.2 Sampling Equipment

The split-barrel samplers, trowels, and other sampling equipment were steam-cleaned at the central decontamination area prior to drilling and after completion of each borehole. This wastewater was discharged to the open evaporation basins located adjacent to the decontamination pad. Sampling equipment was also decontaminated within the washout lagoons after collection of each sample by brushing, rinsing (using well No. 3 water), and then triple rinsing with organic-free deionized water. The wash water (approximately 50 gallons) was contained in drums and later discharged into the lagoons upon completion of the drilling and sampling program.

3.6.3 Personnel

A decontamination station was established in the contamination reduction zone (CRZ). All personnel performing drilling and sampling activities exited through the CRZ.

Protective clothing was removed, and boots and gloves were washed whenever personnel left the CRZ. A double boot and glove wash and a disposable clothing container were utilized within the decontamination station. Additional clean water was available for washing hands before leaving the site. Used personal protective clothing was placed in labeled drums that were transferred to the storage area adjacent to the evaporation tanks.

3.7 Demobilization

The drill rig and equipment were steam cleaned following completion of the subsurface investigation and prior to leaving the UMDA. The berms surrounding the lagoons and other surficial materials disturbed during drilling activities were restored. The decontamination area was cleaned prior to demobilization. Water from the decontamination area collection sump was pumped into the open evaporation tanks. Access passes and keys were returned to UMDA personnel upon completion of field activities.

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Chapter 4
Sample Analysis

Chapter 4 Sample Analysis

Prior studies at the Explosive Washout Lagoons have shown that soils and groundwater are contaminated by explosives and nitrate/nitrite. These contaminants have been designated as the potential contaminants of concern for the site RI/FS (Dames & Moore, 1990b).

All samples from the four boreholes were analyzed for the explosives HMX, RDX, 1,3,5-TNB, 1,3-DNB, NB, tetryl, 2,6-DNT, 2,4-DNT, and 2,4,6-TNT, and for nitrate/nitrite. Samples collected from depths of 0 feet, 4 feet, and 10 feet were analyzed for all analytes listed in Table 4-1. In addition to explosives, the list of analytes includes various inorganics, organic chemical compounds, percent moisture, pH, and total organic carbon (TOC).

Water used for decontamination was also analyzed for the list of analytes in Table 4-1, as were samples of rinsate water collected to verify the thoroughness of decontamination. Trip blank water samples were analyzed for TCL volatiles.

Chemical analysis was conducted according to USATHAMA standards and procedures. The analytical work was administered by USATHAMA, and samples were analyzed by ESE, a USATHAMA CLASS laboratory.

4.1 Methods of Analysis

Soil samples were analyzed according to procedures developed by USATHAMA as part of the Quality Assurance program. Detection and quantification limits were set as specified in the USATHAMA Quality Assurance program.

Explosive ordnance analyses were performed using high-pressure liquid chromatography coupled with an ultraviolet detector. The method of analysis is similar to EPA Method 8330 with a modified extraction precedure. Nitrate/nitrite concentrations were determined by colorimetric techniques (EPA Method 3532).

Sample alkalinity was determined using a titrametric method. An acid digestion followed by an inductively coupled plasma atomic emission spectroscopy (ICP) analysis was done for most metals (EPA Method 6010). Arsenic, selenium, and lead were analyzed (EPA Methods 7060, 7740, and 7421, respectively) using graphite furnace atomic absorption spectrometry (GFAA), and mercury was analyzed (EPA Method 7471) by cold vapor atomic absorption (AA).

Table 4-1 Analyte List

Explosives

2,4,6-TNT

2,4-DNT

2,6-DNT

Tetryl

RDX

HMX

1,3,5-TNB

1,3-DNB

NB

Inorganics

Nitrate/Nitrite

Alkalinity (carbonate, bicarbonate)

Trace Elements (Al, Ba, Be, Cd, Cr, Co, Cu, Sb, As, Pb, Hg, Se, Ag, V, Ni, Tl, Zn)

Major Elements (Ca, Mg, K, Na, Fe, Mn)

Organics

Organochlorine Pesticides

PCBs

TCL Semivolatiles

TCL Volatiles

Others

Percent Moisture

pН

TOC

Note: All soil samples were analyzed for explosives and nitrate/ nitrite. In addition, samples taken from the surface, at 4 feet and at 10 feet were analyzed for inorganics, organics, pH, TOC, and percent moisture.

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Pesticide and PCB analyses of water samples utilized gas chromatography (GC) coupled with an electron capture detector using liquid-liquid extraction (EPA Method 8270). Semivolatiles were analyzed by liquid-liquid extraction and gas chromatography/mass spectrometry (GC/MS) using EPA Method 8270. Volatile organics were analyzed by purge and trap GC/MS (EPA Method 8240). Total organic carbon was determined using a TOC analyzer with an ultraviolet detector (EPA Method 9060).

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Chapter 5
Field and Laboratory Results

Chapter 5 Field and Laboratory Results

The results of field investigations and laboratory analyses conducted during the WLSSI include detailed physical descriptions of the soil profile and chemical data from laboratory analysis of soil samples. Lithologic logs of the four boreholes (S4B-5, S4B-6, S4B-7, and S4B-8) are presented in Appendix B. The complete set of laboratory data is in Appendix C.

5.1 Site-Specific Geology

A lithogic profile showing the fluvial depositional environment in the vicinity of the lagoons is presented in Figure 5-1. The locations of boreholes drilled are shown in Figure 5-2.

Soils beneath the Explosive Washout Lagoons consist of admixtures of sand and gravel to the penetrated depth of approximately 50 feet. Sand varies from fine to coarse, well-graded to poorly graded, and clean to silty. The gravel fraction is typically fine-grained, having diameters of 1/4 to 1/2 inch and is typically subangular. Minor amounts of silt were encountered as occasional thin seams ranging from 1 inch to 24 inches thick and as admixtures with sand and gravel. The water table was encountered at depths of 47 to 48 feet below the bottom of the lagoons.

In boreholes S4B-5, S4B-6, and S4B-8, clean, fine sand was encountered in the uppermost 5 to 7 feet. Borehole S4B-7 encountered more variability in textures ranging from fine to coarse, and clean to silty sand. Soils generally consist of graveily sand below a depth of 25 to 35 feet.

The sediments underlying the lagoons were deposited in a fluvial environment. The lack of coarse gravel, cobbles and boulders, and the presence of silt suggest an area of quiet deposition as compared to the torrential flood gravels deposited elsewhere at the UMDA. The complex nature of the fluvial system does not lend to correlation of sediments between boreholes. No persistent marker beds were identified.

5.1.1 Lithologic Logs

Cuttings were logged in accordance with the Unified Soil Classification System (American Society for Testing and Materials [ASTM] 1991) by the geologist in charge of drilling activities. Logs describing the lithology of soils from each borehole are in Appendix B.

5.2 Laboratory Results of Soil Samples

All soil samples taken from boreholes S4B-5, S4B-6, S4B-7, and S4B-8 were analyzed for a selected suite of explosives and nitrate/nitrite. In addition, samples taken at depths of 0, 4, and 10 feet were analyzed for the total list in Table 4-1. The laboratory results for various analytes are discussed in the following sections, and the complete data set is in Appendix C. Graphs showing concentrations of explosives and nitrate/nitrite vs. depth are presented in Appendix D.

5.2.1 Explosives

During the WLSSI, soil samples were analyzed for a selected suite of explosives including, 1,3,5-TNB, 1,3-DNB, 2,4,6-TNT, 2,4-DNT, 2,6-DNT, HMX, RDX, NB, and tetryl. The laboratory results for explosives and nitrate/nitrite are summarized in Table 5-1.

The explosives detected most frequently and in greatest concentration were 1,3,5-TNB, 2,4-DNT, 2,4,6-TNT, HMX, and RDX. Tetryl was not detected, and 1,3-DNB, 2,6-DNT, and NB were detected in only a few samples and at relatively low concentrations, which is similar to the findings of previous investigations outside the lagoons (Table 2-3). The following discussions address the contaminants most frequently detected during the WLSSI.

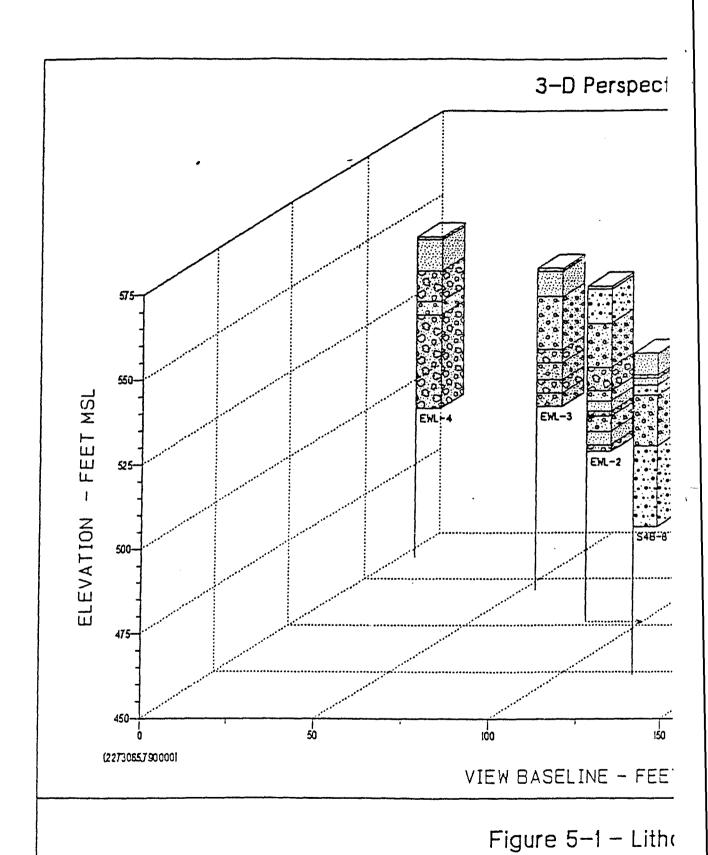
5.2.1.1 1,3,5-TNB

Detectable concentrations of 1,3,5-TNB were found in every soil sample taken beneath the lagoons (Table 5-1). Concentrations ranged from 1.87 to 47.0 μ g/g, but most levels were between 10 and 40 μ g/g. Figure D-1 shows that levels of 1,3,5-TNB in soil samples generally increased below a depth of 5 feet, remained fairly constant between 5 and 40 feet, and decreased below a depth of 40 feet.

5.2.1.2 2,4,6-TNT

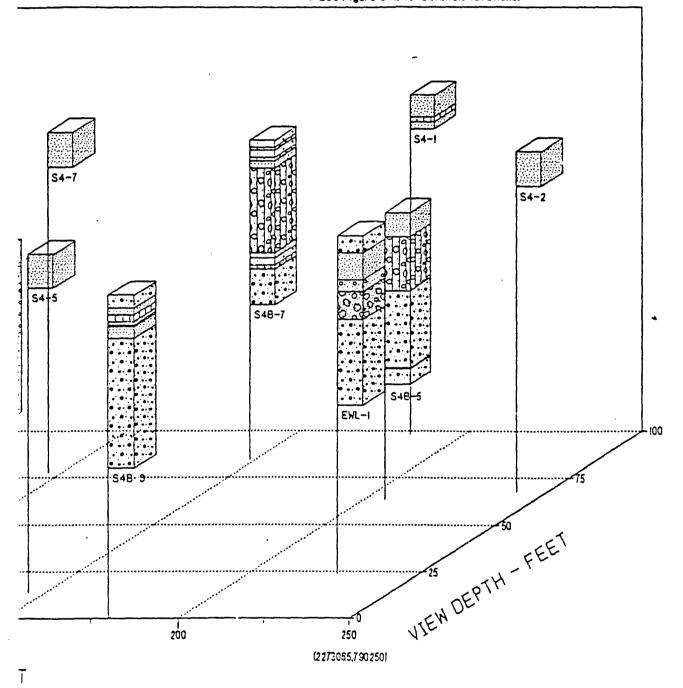
Levels of 2,4,6-TNT ranged from below detection (<0.456 μ g/g) to 1,400 μ g/g, but most concentrations were between 5 and 30 μ g/g. The highest levels (520 to 1,400 μ g/g) were detected in samples taken at 0 and 2 feet from boreholes S4B-6, S4B-7, and S4B-8. Concentrations of 2,4,6-TNT vs. depth were plotted on both arithmetic and log arithmic (log) scales (Figures D-2 and D-3). The log scale allows the display of the full range of concentrations of 2,4,6-TNT detected in soil samples.

Figures D-2 and D-3 show that levels of 2,4,6-TNT decrease rapidly between 4 and 10 feet. There was a slight but steady increase in concentrations between 10 and 50 feet below the bottoms of the lagoons (Figure D-3).



ve Looking West

- * Symbols for lithologic profiles are described on barehole logs Appendix 8.
- ¥ Borehole EWL-2 repositioned 17 ft south to allow unobstructed view.
- **¥** See Figure 5-2 for borehole locations.



ologic Profile of Boreholes

5-3

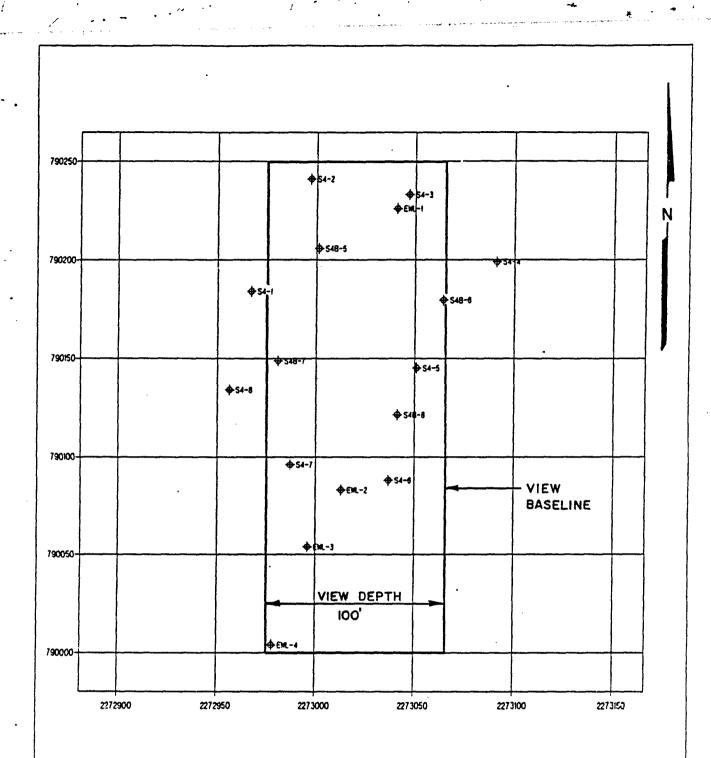


FIGURE No. 5-2
VIEW PERSPECTIVE OF LITHOLOGIC PROFILE

			J	oncentrations	of Explosive	Table 5-1 s and Nitrate/Ni	Table 5-1 Concentrations of Explosives and Nitrate/Nitrite in Soils (µg/g), WLSSI (1992)	ils (µg/g), W	(1992)			
****							•					Page 1 of 4
Site	Site 1D	Depth*	LIN	135TNB	13DNB	246TNT	24DNT	26DNT	HMX	RDX	NB	TETRYL
S4B-5		0	11.0	2.51	<0.496	3.62	<0.424	<0.524	<0.666	200.0	<2.41	<0.731
ne pr		2	5.20	8.59	<0.496	1.47	<0.424	<0.524	191	110.0	<2.41	<0.731
		*	1.82	9.88	<0.496	<0.456	<0.424	<0.524	<0.666	6.01	<2.41	<0.731
		•	11.0	12.9	<0.496	<0.456	<0.424	<0.524	<0.666	11.3	<2.41	<0.731
P408730		∞	6.82	29.0	<0.496	3.02	0.916	<0.524	2.29	16.7	4.30	<0.731
		10	37.0	34.0	<0.496	8.84	4.45	<0.524	<0.666	19.2	<2.41	<0.731
ارسوست		15	eŋ.0	0.04	<0.496	12.0	4.14	<0.524	30.3	22.0	<2.41	<0.731
		20	34.0	36.0	0.747	88.6	<0.424	<0.524	19.4	21.3	<2.41	<0.731
		25	26.0	34.0	<0.496	12.9	<0.424	<0.524	25.4	33.0	<2.41	<0.731
		30	0.09	24.0	<0.496	5.63	<0.424	<0.524	13.9	18.3	<2.41	<0.731
		30°	63.0	26.1	<0.496	7.05	2.40	<0.524	13.6	20.3	<2.41	<0.731
5-6		35	27.0	33.0	0.628	11.5	<0.424	5.56	<0.666	31.0	<2.41	<0.731
		40	27.0	30.0	<0.496	15.0	<0.424	3.81	<0.666	33.0	<2.41	<0.731
		45	3.25	14.8	<0.496	24.0	<0.424	2.45	<0.666	3.52	<2.41	<0.731
		50	3.54	8.0	<0.496	10.1	<0.424	0.872	<0.666	273	<2.41	<0.731

		Ö	Concentrations	of Explosive	Table 5-1 s and Nitrate/Ni	Table 5-1 ntrations of Explosives and Nitrate/Nitrite in Solls (µg/g), WLSSI (1992)	IIs (µg/g), W	(1992)			
											Page 2 of 4
Site ID	Depth*	NIT	135TNB	13DNB	246TNT	24DNT	26DNT	HMX	RDX	NB	TETRYL
S4B-6	0	21.0	23.6	<0.496	520.0	<0.424	<0.524	47.0	1400.0	<2.41	<0.731
	2	20.0	23.0	<0.496	0.086	<0.424	<0.524	27.0	1500.0	<2.41	<0.731
	2c	22.0	27.0	<0.496	780.0	<0.424	<0.524	32.5	1900.0	<2.41	<0.731
	4	13.0	22.1	<0.496	1.11	<0.424	<0.524	3.64	150.0	<2.41	<0.731
	9	24.0	39.0	<0.496	<0.456	0.720	0.708	<0.666	14.2	<2.41	<0.731
	∞	14.0	20.7	<0.496	<0.456	<0.424	0.686	233	8.48	<2.41	<0.731
	01	3.41	18.8	<0.496	<0.456	<0.424	<0.524	<0.666	4.76	<2.41	<0.731
	15	1.88	27.0	<0.496	14.1	<0.424	1.31	3.03	10.1	<2.41	<0.731
	20	3.24	26.0	<0.496	6.55	<0.424	1.53	9.35	13.5	<2.41	<0.731
	22	3.92	7.73	<0.496	6.97	<0.424	<0.524	5.82	6.55	<2.41	<0.731
	30	2.83	9.30	<0.496	7.63	0.764	<0.524	7.12	0.6	<2.41	<0.731
	35	4.70	30.0	<0.496	8.62	1.49	<0.524	13.2	23.1	<2.41	<0.731
	40	6.20	32.0	<0.496	13.2	2.62	<0.524	15.6	31.0	<2.41	<0.731
	45	3.55	14.7	<0.496	171	1.70	<0.524	10.2	90.9	<2.41	<0.731
	50	1.80	18.0	<0.496	27.0	2.47	<0.524	19.0	5.15	<2.41	<0.731

		Č	oncentrations of	of Explosive	Table 5-1 s and Nitrate/Ni	Table 5-1 Concentrations of Explosives and Nitrate/Nitrite in Soils (µg/g), WLSSI (1992)	lls (µ £/£), W.	(1992)			
			:		•						Page 3 of 4
Site 1D	Depth*	FIIN	135TNB	13DNB	246TNT	24DNT	26DNT	IIMX	RDX	NB	TETRYL
S4B-7	0	0.71	17.0	<0.496	1400.0	<0.424	<0.524	>0.666	3.38	<2.41	<0.731
*	7	0.75	21.0	<0.496	1300.0	<0.424	<0.524	3.35	12.6	<2.41	<0.731
	4	4.18	18.0	<0.496	0.796	<0.424	<0.524	<0.666	59.0	<2.41	<0.731
	9	30.0	47.0	<0.496	3.	0.683	<0.524	<0.666	36.0	<2.41	<0.731
	œ	9,66	23.0	<0.496	1.41	0.614	<0.524	<0.666	2.78	<2.41	<0.731
	01	0.99	39.0	<0.496	4.23	2.65	<0.524	11.4	28.0	<241	<0.731
•	15	100.0	39.0	<0.496	24.0	16.2	<0.524	47.0	80.0	<2.41	<0.731
and the same of th	20	45.0	1.87	<0.496	4.36	3.04	<0.524	5.13	93.0	<2.41	<0.731
	25	29.0	22.9	<0.496	11.4	2.93	<0.524	16.4	30.0	<2.41	<0.731
	30	30.0	40.0	<0.496	20.2	3.96	<0.524	21.9	65.0	<2.41	<0.731
	35	72.0	50.9	<0.496	2.16	1.21	<0.524	3.67	89.6	<241	<0.731
-8	40	66.0	38.0	0.999	4.57	2.34	<0.524	7.93	12.6	<241	<0.731
	45	3.19	18.0	0.547	24.0	3.47	<0.524	13.0	2.91	<241	<0.73;
	45c	3.77	19.0	<0.496	27.0	4.41	<0.524	14.8	3.24	<2.41	<0.731

	(1992)
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Site 1D	Depth*	NIT	135TNB	13DNB	246TNT	24DNT	26DNT	IIMX	RDX	NB NB	TETRYL
S4B-8	0	151	20.0	<0.496	740.0	. <0.424	<0.524	9.83	13.4	<2.41	<0.731
	7	0.618	8.35	<0.496	13.9	<0.424	<0.524	<0.666	1.73	<2.41	<0.731
	4	0.739	13.7	<0.496	19.7	<0.424	<0.524	<0.666	<0.587	<2.41	<0.731
	9	<0.63	15.3	<0.496	1.99	<0.424	<0.524	<0.666	1.67	<2.41	<0.731
	8	1.22	9.29	<0.496	0.612	<0.424	<0.524	<0.666	<0.587	<2.41	<0.731
	91	34.0	13.0	<0.496	8.03	2.18	<0.524	1.60	2,13	<2.41	<0.731
	15	38.0	17.8	<0.496	7.85	2.51	<0.524	1.84	10.9	<2.41	<0.731
	15c	44.0	17.9	<0.496	71.7	2.54	<0.524	2.05	11.1	<2.41	<0.731
	20	51.0	27.0	<0.496	11.4	4.30	<0.524	2.84	15.2	<2.41	<0.731
	25	32.0	40.0	<0.496	25.0	06.90	<0.524	6.56	29.0	<2.41	<0.731
	30	36.0	21.7	<0.496	7.68	2.62	<0.524	2.20	7.26	<2.41	<0.731
	35	30.0	40.0	<0.496	29.0	3.75	<0.524	6.04	11.4	<241	<0.731
	40	31.0	35.0	<0.496	38.0	4.41	<0.524	9.37	23.1	<2.41	<0.731
	45	14.0	36.0	<0.496	19.7	3.37	<0.524	15.6	3.91	<2.41	<0.731
	50	3.89	19.0	<0.496	15.1	2.29	<0.524	7.93	<0.587	<2.41	<0.731
Description from holom land and and	a back meter										

*Depth in feet below land surface.

bNIT = nitrate + nitrite as N.

Duplicate sample.

Note: Concentrations greater than the detection limited are highlighted by shading.

5.2.1.3 2,4-DNT

Relatively low levels of 2,4-DNT were detected in soil samples taken beneath the lagoons, and concentrations ranged from below detection ($<0.424 \mu g/g$) to 16.2 $\mu g/g$. Table 5-1 shows that 2,4-DNT was detected most frequently in the samples from boreholes S4B-7 and S4B-8 (south lagoon), and few detections were reported in samples from boreholes S4B-5 and S4B-6 (north lagoon).

Concentrations of 2,4-DNT were below detection in the upper 8 feet of the soil profile in nearly every sample. Detectable levels were found below 8 feet. The results from previous investigations outside the lagoons (Table 2-3) showed 2,4-DNT was most commonly found in samples taken at or near the water table.

5.2.1.4 HMX

Concentrations of HMX ranged from below detection ($<0.666 \,\mu\text{g/g}$) to 47.0 $\,\mu\text{g/g}$ (Table 5-1). The highest concentrations were detected in the near-surface samples from borehole S4B-6 (47.0 $\,\mu\text{g/g}$) and in the sample taken at a depth 15 feet from borehole S4B-7 (47.0 $\,\mu\text{g/g}$). Relatively high concentrations of HMX were also detected in the samples taken at depths between 15 and 30 feet from boreholes S4B-5 and S4B-7 (Figure D-5).

Figure D-5 shows a similar distribution of HMX in boreholes S4B-5 and S4B-7. A similar pattern of the distribution of HMX is also evident for S4B-6 and S4B-8. Boreholes S4B-6 and S4B-8 are at the east ends of the lagoons, and S4B-5 and S4B-7 are at the west ends of the lagoons.

5.2.1.5 RDX

Concentrations of RDX detected in soil samples were relatively variable, and the results were plotted vs. depth on both arithmetic and log scales (Figures D-6 and D-7). The highest levels of RDX were detected in the near-surface samples from boreholes S4B-5 and S4B-6 (110 to 1900 μ g/g) and in the samples taken between 15 and 30 feet from borehole S4B-7 (30.0 to 93.0 μ g/g). Moderate levels of RDX were detected between 15 and 40 feet, and concentrations decreased below 40 feet in all boreholes (Figure D-7).

5.2.2 Nitrate/Nitrite

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Soil samples were analyzed for the concentration of nitrate + nitrite, and the results were reported as total nitrogen (N). Nearly all samples showed detectable levels (>0.60 μ g/g) of nitrate/nitrite (Table 5-1). Concentrations ranged from below detection in the sample taken at a depth of 6 feet from boring S4B-8, to 100 μ g/g in the sample taken at a depth of 15 feet in boring S4B-7.

Figure D-8 (Appendix D) shows concentrations of nitrate/nitrite versus depth for samples taken from the four boreholes. The data indicate that concentrations were generally higher in the interval between 10 and 40 feet below land surface than in the upper 10 feet of the soil profile. The results for boreholes S4B-6 do not follow this trend. Nitrate/nitrite concentrations from S4B-6 samples were between 10 and 25 μ g/g in the upper 8 feet of the borehole and generally less than 5 μ g/g below a depth of 10 feet.

Data genera'ed during an ongoing study of soil chemistry at UMDA (Appendix F) indicate that background concentrations of nitrate/nitrite are generally in the range of below detection ($<0.6~\mu g/g$) to $4~\mu g/g$, although levels as high as $8.4~\mu g/g$ have been detected. Comparison of concentrations of nitrate/nitrite shown in Table 5-1 with background levels (see Appendix F), indicates that soils beneath the lagoons have been contaminated by the washout process.

5.2.3 Trace Elements

Soil samples taken at 0, 4, and 10 feet from each of the four boreholes were analyzed for a suite of 17 trace elements. The trace elements include Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Ag, Tl, V, and Zn. The results of analyses for trace elements and Fe and Mn in soils are presented in Table 5-2.

Concentrations of 4 of the 17 trace elements (Sb, Cd, Hg, and Se) were below detection limits in all samples. Concentrations of detected trace elements ranged from less than 10 μ g/g for As, Be, Ag, and Pb, to nearly 10,000 μ g/g for Al. Levels of V, Zn, and Ba were in the range of 40 to 140 μ g/g. Mn was between 300 and 525 μ g/g, and Fe concentrations ranged from 21,300 to 31,000 μ g/g.

Table 5-2 shows that for most trace elements, the concentrations fall within a relatively narrow range. For example, the concentration of As ranges from 0.898 to 2.59 μ g/g, and Pb values range from 3.65 to 9.40 μ g/g.

The data in Table 5-2 also show a slight increase in concentration with depth in the results for trace elements from the 0-, 4-, and 10-foot sample sets. The trend is present more frequently in the sample sets from boreholes S4B-6 and S4B-7 than from boreholes S4B-5 and S4B-8. For example, lead concentrations in the 0-, 4-, and 10-foot samples from S4B-6 were 3.88, 6.43, and 9.40 μ g/g, respectively. The trend of increasing concentration with depth is evident in approximately 40 percent of the sample sets (Table 5-2) where detectable concentrations of trace elements were present, which may be attributed to the leaching of metals from shallow soils during the washout process.

						Table 5.1 Concestrations of Trace Diencests in Sodis (1992), WLSSI (1993)	T be sed	Tace Elect	Table 5-1	Seats (Fg	E, WS	SI (1 79 2)	,							
9	100	[4		3		2	3	3	3	2	2	3	Pη	I	7	7	F	>	3
X 8 3	•	¥ 38.	47.14	*	ř	3	•	*	2	2	23,000	4.11	i	\$9 8 2	9.7	8.8	22.	17.8	2	7.0
	•	* * *	*1.0	2	ž	2.	ş	:	3	2	7.18	3	•	\$:	262	3	31.0	2	122
	2	3	*10	=	3	ĸ	\$	5	=	17.4	*****	n	314.0	\$	<u>.</u>	X.	3	•	7	177
54B.4	•	£38.	\$115		2.5	3	\$	2	2	3	2,588	3	ě	\$	23	Ħ	74.5	•n	31.4	7
	•	9	43.14	*	Ē	2113		3	3	21	•	5	• [\$	ĭ	E S	=	ឆ្ន	2	*
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X48-1		5311@	¢716	n	i	32	\$	3	3	3	2398.5	ă	\$3.0	2000	5	N S	H	ä	Si .	3,4
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248.4		1180	4114	6.31	31	3	9	:	3	111	3	aĭ	933.6	200	73	R#>				55.1
	•	9328	47.14	=		3		2	3	3	****	Ę	8	\$8.	2.	n e	*	717	7	1321
	2	3.80	. MC>	ž	į	*	ŝ	3	2	ī	23100	ž	į	\$	3.5	g es	1	77	75.	43.7

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WLSSI results were compared to U.S. Geological Survey (USGS) data from north-eastern Oregon and background data from ongoing investigations at the UMDA (see Appendix F) to determine if concentrations of trace elements in soils beneath the lagoons were elevated as a result of the washout process. Trace elements detected in soil samples during the WLSSI include Al, As, Ba, Be, Cr, Co, Cu, Ni, Ag, Tl, Pb, V, and Zn. Fe and Mn were also detected and were included in the background comparison.

During the USGS investigation (Shacklette and Boerngen, 1984), soil samples were taken at a depth of approximately 20 cm from locations about 80 km apart throughout the conterminous United States and were analyzed for their content of elements. The arithmetic and geometric mean, the geometric deviation, and a histogram showing frequencies of analytical values were developed for 47 elements.

Data generated during an ongoing background study of soil chemistry at UMDA are in Appendix F. Ten soil samples were taken from depths of 0, 5, and 9 feet at background locations and analyzed for a series of 26 trace and major elements. The sampling depths and parameters analyzed were very similar to the approach used in the WLSSI.

The results of the comparisons indicate that levels of Al, As, Ba, Cr, Co, Cu, Ni, Ag, Tl, Zn, V, Pb, Fe, and Mn were within the range of concentrations detected in the USGS and UMDA investigations. Concentrations of these elements in soils were not elevated by the washout process.

The level of Be in soils beneath the lagoons may have been elevated by the washout process. The results of the UMDA background study, the USGS investigation, and the WLSSI for these three elements are summarized in Table G-1 (Appendix G). Be was detected in 50 percent of the soil samples taken beneath the lagoons at concentrations ranging from 2.6 to 3.2 μ g/g. These levels are at least 2 to 3 times greater than concentrations reported by Shacklette and Boerngen (1984) for northeastern Oregon (Table G-1). The concentration of Be was below detection in all UMDA background soil samples.

5.2.4 Major Elements

Soil samples taken from depths of 0, 4, and 10 feet were analyzed for major elements, and the results, except for Fe and Mn, are shown in Table 5-3. The results for Fe and Mn were discussed with trace elements in Section 5.2.3. The major elements Ca, Mg, and K are essential plant nutrients. Na is not considered an essential element for plant growth.

Concentrations of major elements do not appear to have been elevated by the washout process. Ca was detected in relatively high concentrations ranging from 3,830 to 24,100 μ g/g. Ca typically is the predominating cation in almost all soils (Kabata-Pendias and Pendias, 1984). Mg concentrations ranged from 3,840 to 8,120 μ g/g. Relatively lower levels of K and Na were detected with concentrations ranging between 695 and 1,750 μ g/g and between 282 and 510 μ g/g, respectively. A trend of increasing concentration with depth is evident for some sample sets (Table 5-3).

5.2.5 TCL Volatiles and Semivolatiles

Soil samples taken at 0, 4, and 10 feet were also analyzed for TCL volatiles and semi-volatiles. The results of laboratory analyses (Appendix C) show that no TCL volatiles were detected in any samples.

TCL semivolatile compounds detected include di-n-butyl phthalate and 2,4-DNT. Di-n-butyl phthalate was found in the surface sample from borehole S4B-7 at a concentration of 0.09 μ g/g. This compound is associated with plastics and may be a laboratory artifact.

The explosive 2,4-DNT was detected during the GC/MS analysis for TCL semivolatiles. As discussed in Section 5.2.1.3, 2,4-DNT was also detected in the HPLC analysis for explosives. Concentrations of 2,4-DNT detected by GC/MS and by HPLC are presented in Table 5-4. The results are generally similar, although slightly higher concentrations were reported in the HPLC analysis for some samples. Both methods of analysis indicate concentrations of 2,6-DNT were below the detection limit in all samples (Table 5-4).

5.2.6 Organochlorine Pesticides

Soil samples were taken at 0, 4, and 10 feet from the four boreholes and analyzed for organochlorine pesticides. The results of analyses (Appendix C) show that concentrations of these compounds were below detection in all samples.

5.2.7 PCBs

Soil samples were collected from the four boreholes at 0, 4, and 10 feet and analyzed for PCBs. The results (Appendix C) indicate that concentrations of PCBs were below detection in all samples.

	Concentration	Table 5-3 Concentrations of Major Elements in Solis (µg/k), WLSSI (1992)	e 5-3 ts in Solis (μg/g), W	1.SSI (1992)	
Site ID	Depth	. v 2	Mg	K	Na
S4B-5	0	3830	4440	766	282
	4	9200	5270	808	304
	10	9770	4270	£70	360
S4B-6	0	11500	3840	695	290
	4	11100	6740	1260	332
	10	14200	8120	17.0	427
S4B-7	0	13100	5190	951	369
	4	11000	0669	1210	419
	01	13900	6720	1390	510
S4B-8	0	5930	4690	098	365
	4	8420	5210	692	357
	10	24100	5440	747	389

		Ď	Compai termined l	rison of Exp by HPLC an	Table 5-4 closives Co	Table 5-4 Comparison of Explosives Concentrations (µg/g) Determined by HPLC and GC/MS Analyses, WLSSI (1992)	(188) SSI (1992)		
		2,4-1	2,4-DNT	2,6-DNT	TN	1,3,5-TNB	TNB (TIC)•	2,4,6-TNT	TNT (TIC)•
Site 1D	Depth	пРСС	GC/MS	IIPLC	GC/MS	HPLC	GC/MS	HPLC	GC/MS
S4B-5	04;	<0.424 <0.424	<0.14	<0.524	<0.85 <0.85	2.51 9.88	ND 2.1	3.62 < 0.456	1.05 ND
	01	4.45	1 8:	<0.524	<0.85	34.0	4.31	8.84	Q
S4B-6	C 4 0	<0.424 <0.424 <0.424	0.485 < 0.14 < 0.14	<0.524 <0.524 <0.524	<0.85 <0.85 <0.85	23.6 22.1	ND 6.34	520.0	738.0 ND
S4B-7	0 7	<0.424	<0.14	<0.524	<0.85	17.0	ND	1400.0	211.0
	10	2.65	1.13	<0.524	<0.85	39.0	6.42	6.7% 4.23	22
S4B-8	0 4	<0.424	0.166	<0.524	<0.85	20.0	QN QN	740.0	207.0
	10	2.18	1.35	<0.524	<0.85	13.0	ND	8.03	6.3
TIC = TRIND = N	TIC = Tentatively ident ND = Not detected as a Reported as unknowns in	entified compound as a TIC. In Appendix C.	pound.						

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5.2.8 Tentatively Identified Compounds (TICs)

A list of tentatively identified compounds (TICs) from the GC/MS analysis of soil samples taken at 0, 4, and 10 feet is presented in Appendix C. This list includes trinitrotoluene (TNT), trinitrobenzene (TNB), unknown cyclohexanes, and other organic compounds. Concentrations of TICs range from 0.311 μ g/g chloroform in the surface sample from borehole S4B-5 to 738 μ g/g TNT in the surface sample from borehole S4B-6. Either TNT or TNB was tentatively identified in all samples analyzed by GC/MS.

Soil samples were also analyzed for TNB and TNT using HPLC (Section 5.2.1). Table 5-4 indicates that levels of TNT and TNB determined by GC/MS do not always compare with results determined by HPLC. TNT and TNB were not detected by GC/MS when these compounds were positively identified by HPLC.

Some TICs appear to be co-contaminants or degradation products of explosives. The remaining are relatively low in concentration, generally less than 10 μ g/g (Appendix C).

5.2.9 pH

Soil pH ranged from 7.6 to 8.4 (Table 5-5). The slight to moderate alkalinity is common for mineral soils in arid regions (Brady, 1974). The soil pH is relatively uniform in the 0-, 4-, and 10-foot samples, and there is no obvious trend with depth (Table 5-5).

5.2.10 Carbonate Alkalinity

The 0, 4, 10-foot soil samples taken during the WLSSI were analyzed for total carbonate alkalinity, and the results are presented in Table 5-5. The concentration of total carbonates ranged from below detection ($<25 \mu g/g$) to 194 $\mu g/g$.

Calcite and dolomite are the principal carbonate minerals present in soil, and most inorganic carbon is associated with these compounds. Calcite is the most widespread form of calcium carbonate present, and has a major influence on the pH of soils (Kabata-Pendias and Pendias, 1984). Comparison of pH and the concentration of total carbonates (Table 5-5) indicates a close relationship between these two parameters.

5.2.11 Moisture Content

Soil samples collected at depths of 0, 4, and 10 feet from each boring were tested for moisture content. Moisture content was obtained as a percent of wet weight after drying. Laboratory results for percent moisture are presented in Table 5-5. Moisture levels are characteristic of unsaturated soils. The sand sample collected from bore-levels at 10 feet had an anomalously high value of 16.7 percent moisture. The

Alkalinity,		e Content (%), pH,	Table 5-5 and Concentration	Table 5-5 Moisture Content (%), pH, and Concentration of TOC in Soils, WLSSI (1992)	1992)
Site ID	Depth	Alkalinity*	IId	Molsture Content (%)	TOC
S4B-5	0	<25	7.64	4.7	0.892
	4	48	8.19	4.8	3.33
	10	52	8.11	7.1	0.808
S4B-6	0	102	8.27	5.2	7.34
	4	46	8.19	5.4	3.6
	10	50	8.11	16.7	1.42
S4B-7	0	194	8.35	5.3	4.88
	4	50	7.87	17.5	3.12
	10	99	8.08	9.9	2.19
S4B-8	0	54	8.2	3.5	1.93
	4	50	8.4	5.4	1.18
	10	194	8.3	4.7	0.841
*Alkalinity = Total carbonate alkalinity (μg/g). ^b g/kg.	carbonate a	kalinity (µg/g).			

sample taken at 4 feet from borehole S4B-7 had a moisture content of 17.5 percent, which is consistent for silt as logged.

5.2.12 TOC

Concentrations of TOC determined from the analysis of the 0-, 4-, and 10-foot samples are presented in Table 5-5. Concentrations ranged from 0.808 to 7.340 g/kg. The highest levels were present in the 0- and 4-foot samples from boreholes S4B-6 and S4B-7. TOC appears to be a general indicator of the concentration of total explosives, since the highest concentrations of RDX and 2,4,6-TNT were detected in the same samples from these two borings (Table 5-1).

5.3 Laboratory Results of Field QC Samples

Field quality control (QC) samples taken during the WLSSI included the se trip blanks, three rinsate blanks, one water blank from UMDA well No. 3, and four duplicate soil samples. Laboratory results from field QC samples are presented in Appendix C.

Trip blanks (water samples) were analyzed for TCL volatiles, and all concentrations were below detection. Rinsate blanks (water samples) were analyzed for the analytes listed in Table 4-1, and the results show detections of major and trace elements, bromodichloromethane (3 detections), chloroform (3 detections), and toluene (2 detections).

Concentrations of bromodichloromethane, chloroform, and toluene ranged from 0.73 to 7.4 μ g/L. The chloroform is most likely a laboratory artifact. Concentrations of bromodichloromethane (0.73, 1.4, and 1.5 μ g/L) and toluene (1.06 and 0.73 μ g/L) are not significant and were not detected in soil samples.

The major and trace elements detected in rinsate blanks included Cu, Fe, K, and Na. Concentrations of these elements are expressed in $\mu g/L$ (ppb) and are much below levels detected in soils. The detections are most likely residuals from steam cleaning. The lack of explosives detected in rinsate blanks demonstrates the effectiveness of the steam cleaning process in decontaminating the sampling equipment.

The water blank from well No. 3 was also analyzed for the entire list of analytes. The major and trace elements detected include Ba, Ca, Cu, Fe, K, Mg, Mn, and Na. Concentrations of these elements are much below levels detected in soils. No TCL organic compounds were detected in the water blank.

The analysis of duplicate samples for explosives and nitrate/nitrite (Table 5-1) indicate that the ability of the laboratory to reproduce results was very good in nearly all cases.

The relative percent difference (RPD) in concentration of duplicates was generally less than 10 percent and averaged approximately 6 percent.

Chapter 6 Interpretation

Chapter 6 Interpretation

Results from laboratory analyses of soil samples taken beneath the lagoons indicate contamination is essentially limited to explosives and nitrate, although the concentration of the trace element Be was slightly elevated. At 1-2.5 μ g/g, concentrations of Be were slightly above the background levels measured on Depot soils. However, they were well within the range of background concentrations (0.1-40 μ g/g) reported in Chemical Equilibria in Soils (Lindsay, 1979). The explosives detected in highest concentration during the WLSSI were RDX and 2,4,6-TNT. Elevated levels (>100 μ g/g) of these compounds were limited to soils in the first 2 to 4 feet beneath the bottoms of the lagoons, although detectable concentrations were present down to the water table at a depth of 48 feet. Concentrations of other organic and inorganic analytes were either below detection or in the range of background levels.

A series of lithologic profiles showing concentrations of explosives in soil samples are presented in Appendix E. The 3-D perspectives allow comparison of explosive concentrations in samples to the lithology described by geologists. The data plots show trends in the concentration of explosives in individual boreholes. Additionally, explosive concentrations in samples taken adjacent to the lagoons during previous investigations were compared with samples taken beneath the lagoons during the WLSSI.

Figure E-1 shows lithology and concentrations of explosives in soils along transect C-C', which parallels the west side of the lagoons. The lithology along transect D-D', which generally follows the east side of the lagoons, is identical in Figures E-2, E-3, E-4, and E-5. The concentration of explosives (1,3,5-TNB, 2,4,6-TNT, HMX, and RDX) were illustrated separately on these figures because of space limitations. Figure E-6 is a borehole location map showing the view perspectives for both transects.

No consistent marker beds were correlated between the lithologic profiles. The profiles generally show clean, fine sand with gravel in the uppermost 5 to 7 feet in all boreholes except S4B-7. Soils predominantly consist of sand below a depth of 25 to 35 feet.

Concentrations of explosives do not appear to correlate strongly with lithology on a large or macro scale. An increase in silt or sand content in boreholes did not consistently result in an increase or decrease in the concentration of explosives.

Groundwater is the suspected source of soil contamination observed near the water table in boreholes adjacent to the lagoons. Concentrations of explosives in soils slightly increase immediately above the water table in boreholes EWL-4, EWL-3, EWL-2, EWL-1, and S4-8 (Figures E-1 through E-5). Explosives-contaminated seepage has been flushed from soils and has moved laterally away from the lagoons in the groundwater system. Contaminants in groundwater appear to have been adsorbed by soils during fluctuations in the water table. The flushing also accounts for a relative

decrease in concentration of some contaminants in soil samples taken immediately above the water table and directly beneath the lagoons.

Distributions of explosive compounds (1,3,5-TNB, 2,4,6-TNT, HMX, and RDX) are often similar within individual boreholes. Similarities in the distributions of explosives are evident in boreholes S4B-5 and S4B-7 (Figure E-1). Relatively high concentrations of explosive were detected at 15 feet in S4B-7. Low concentrations of all explosives except RDX were found at 20 feet in the same borehole.

Comparison of Figures E-2, E-3, E-4, and E-5 also show similarities in distributions of explosives with depth in boreholes S4B-8 and S4B-6. The results suggest that the distribution of explosives appears to be affected by borehole-specific conditions (microscale lithology, permeability, distance from the movable flume, and location relative to the lagoon) rather than macro-scale lithology.

Similarities in the distribution patterns of explosives occur less frequently from borehole to borehole. The distribution of 2,4-DNT is generally similar for all boreholes within the lagoons (Figure D-4). A resemblance in the trends for RDX, 1,3,5-TNB, and 2,4,6-TNT is evident in boreholes S4B-5 and S4B-6 (Figures D-1, D-2, and D-6), and for HMX in boreholes S4B-6 and S4B-8 (Figure D-5).

The difference in concentrations for most explosives between boreholes S4-8 and S4B-7 is dramatic. Borehole S4-8 is immediately southwest of the south lagoon, and borehole S4B-7 is at the west end and inside the south lagoon (Figure 3-1). Concentrations for most explosives are below detection, except near the surface and near the water table in borehole S4-8 (Figure E-1). RDX was detected throughout the soil profile, which shows greater lateral mobility for this compound.

Figures E-2, E-3, E-4, and E-5 follow a transect that incorporates the EWL boreholes from a previous investigation (Roy F. Weston, Inc., 1991). Concentrations of explosives shown on the profiles in areas outside the lagoons are significantly lower than concentrations beneath the lagoons. The difference is dramatic for all explosives. Highest concentrations of explosives outside the lagoons are in borehole EWL-2, which is immediately south of the south lagoon. The results confirm that lateral migration of contaminants above the water table is not significant. Migration appears to be primarily vertical as a result the relatively high permeability of soils beneath the lagoons.

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Chapter 7
Summary and Conclusions

Chapter 7 Summary and Conclusions

The WLSSI was performed to determine the distribution and concentration of explosives, their metabolites, and co-contaminants in soils directly beneath the Explosive Washout Lagoons at UMDA. Field work was done November 1 through 4, 1991. Four boreholes were drilled, and soils were sampled at pre-determined depths.

All samples were analyzed for a selected suite of explosives and nitrate/nitrite. Near-surface samples were also analyzed for FCL volatiles and semivolatiles, trace and major elements, pesticides, PCBs, TOC, pH, and percent moisture. The results have been correlated with data from previous investigations to develop a more complete understanding of the nature and extent of subsurface contamination.

Boreholes were drilled using the dual-wall reverse air circulation method. This method had been used successfully in previous investigations at UMDA. Boreholes were advanced to the intersection of the underlying water table which occurred at approximately 50 feet below the bottom of the lagoons. Approximately 14 soil samples were collected from each borehole using a split-barrel sampler.

Soils beneath the lagoons consist of admixtures of sand and gravel. Sand varies from fine to coarse, well graded to poorly graded, and clean to silty. Minor amounts of silt were encountered as occasional thin seams and as admixtures with sand and gravel. Boreholes generally encountered clean, fine sand in the uppermost 5 to 7 feet and fine to coarse sand below a depth of 25 to 30 feet. No persistent marker beds were identified.

Laboratory analyses of soil samples taken beneath the lagoons indicate contamination is essentially limited to explosives and nitrate, although the concentration of the trace element Be was slightly elevated. At 1-2.5 μ g/g, concentrations of Be were slightly above the background levels measured on Depot soils. However, they were well within the range of background concentrations (0.1-40 μ g/g) reported in Chemical Equilibria in Soils (Lindsay, 1979). Concentrations of other organic and inorganic analytes were either below detection or in the range of background levels.

Explosives detected most frequently and in greatest concentration were 1,3,5-TNB, 2,4-DNT, 2,4,6-TNT, HMX, and RDX. Tetryl was not detected, and 1,3-DNB, 2,6-DNT, and NB were detected in only a few samples and at relatively low concentrations, similar to previous investigations outside the lagoons.

RDX and 2,4,6-TNT were detected at high concentrations (110 to 1900 μ g/g) in near surface samples. Relatively high concentrations (30.0 to 93.0 μ g/g) of RDX were also detected between 15 and 30 feet in borehole S4R-7. Moderate levels of 1,3,5-TNB, 2,4,6-TNT, HMX, and RDX were detected throughout the soil profile. Concentrations

of 2,4-DNT were relatively low, and detections were generally limited to samples taken below a depth of 8 feet beneath the lagoons.

Nearly all samples showed detectable levels of nitrate/nitrite, and the highest concentration was $100 \mu g/g$. Concentrations were generally higher in the interval between 10 and 40 feet below the surface than in the upper 10 feet of the soil profile.

Concentrations of explosives do not appear to correlate strongly with lithology on a large (macro) scale. An increase in silt or sand content in boreholes did not consistently result in an increase or decrease in the concentration of explosives. The results suggest that the distribution of explosives appears to be more strongly affected by borehole-specific conditions (micro-scale lithology, permeability, distance from the movable flume, and location relative to the lagoon) rather than by macro-scale lithology.

Groundwater is the suspected source of soil contamination observed near the water table in boreholes adjacent to the lagoons. Explosives-contaminated seepage has been flushed from soils and has moved laterally away from the lagoons in the groundwater system. Contaminants in groundwater appear to have been adsorbed by soils during fluctuations in the water table. The flushing also accounts for a relative decrease in concentration of some contaminants in soil samples taken immediately above the water table and directly beneath the lagoons.

The difference in concentration of explosives in soils from areas outside the lagoons versus concentrations beneath the lagoons is dramatic. The results confirm that lateral migration of contaminants above the water table is not significant. Migration appears to be primarily vertical, a result of the relatively high permeability of soils beneath the lagoons.

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Appendix A
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Appendix B Borehole Logs

				CORPORA	TION			Sheet 1 of 2	
₩(-E)	NVIRONM	ENTAL SERVICE	es group	BOREH	DLE I	_OG		MOJECT NUMBER 3843	
								vel naer S4B-5	
	MATILL	A ARMY DEPOT					PLOSIVE WASHOUT L	AG000N	
17902		227300133				LAYNE EN	tractor VIRONMENTAL SERVI	ŒS	
WIL NA XILL	E MO HO SYSTEM	ŒL: IS AP-1000 DU:	AL WALL F	REVERSE CIRCULAT	TION	BEDRX ELEY: N/A It.	B 5/8 in O.D.	35 .	
S ELEV 34.65		TOC BLEV:		PETRIE ANGLE	<u> </u>	TOTAL DEPTH.	HOLE 527E;		
	VELTOATE		FUED MO A	OCITIVES:		DATE START: 11-03-91	DATE FINESR 11-03-91	LOGGER A. BENFER	
		SAMPLI					SOIL DESCR		
3	(leet)	TYPE AND N		STANDARO PENETRATION TEST RESULTS	901			r, Particle Size Distribution, inc Density or Consistency,	
ELEVATION	ОЄРТН (RECOVE	7	SAPPLE NI NI	GRAPHIC	So	il Structure, Mineralog	y, USCS Group Symbol	
	-	Bulk-1 0.0-2.0' 2.0'				(10	yr4/4), moist, i	dark yellowish brown medium dense,SP.	
	-	SS-2 2.0-3.5'		5-12-16 (28)		poci	ND; As above, : (ets at 3.5'. ND: As above, :		
29 —	5 -	SS-3 4.0-5.5'		10-14-18 (32) 12-13-14		Inte 6.0-7.0' SA	rbedded medlu	um to coarse sand. dlum, clean, as above,	
	-	SS-4 6.0-7.5°		(29) 18-23-27	d	to	coarse sand, 15	" angular, 20% medulm 5% silt, yellowish brown dense to very dense, G	
24−	10	18" SS-5 8.0-9.5"		(50) 12-20-21 (41)		8.0-9.5' GR	AVEL: As above AVEL: As abov	e.	
	-	SS-6 10.0-11.5 15"			0 0				
519 —	-	SS-7 15.0-16.5 15"		17-17-18 (35)			RAVEL: As abov 8.5°.	ve, dense, 1" siit seam	
S4 -	- -20	SS-8		17-17-16		20.5-21.5° GI	RAVEL: As abo	ve, 10% slit, dense,	
	- -	20.0-21.5 18"		(32)		GW-	GP-GM.	•••••	
i09	- -25 -	SS-9 25.0-26.5 16"	5'	12-14-13 (27)		fine yeik	1/4" gravel, tr	led,fine to coarse, 15% ace of silt, dark Oyr4/3), moist, medium	
	- 30					gen.	,		

MORRISON KNUDSEN CORPORATION

MK-ENVIRONMENTAL SERVICES GROUP

BOREHOLE LOG

Sheet 2 of 2 MOLECT NUMBER 3843 WELL NUMBER S48-5

						S48-5
MOJETI: EMO-U	MATILU	ARKY DEPOT				NORTH EXPLOSIVE WASHOUT LAGOON
		SAMPLE	T	STANDARD		SOIL DESCRIPTION
110N	(teet)	TYPE AND NUMBER INTERVAL RECOVERY		PENETRATION TEST RESULTS	001 J	NAME, Gradation or Plasticity, Particle Size Distribution, Color, Moisture Content, Relative Density or Consistency,
ELEVATION	ОЕРТН	HELOVENT	SAMPLE	6"-6"-6" 041	GRAPHIC LOG	Soil Structure, Mineralogy, USCS Group Symbol
	•	SS-10 30.0-31.5* 16"		12-14-15 (31)		30.0-31.5' <u>SAND</u> : As above, dense, SW.
499 —	-35 -	SS-11 35.0-38.5' 18"		19-20-21 (42)		35.0-36.5' <u>SAND</u> ; As above, dense, 20% silt from 36.0-36.5'.
49.4	40	SS-12 40.0-41.5*		16-1 8- 19 (37)		40.0-41.5 <u>SAND</u> ; As above, clean, dense, finer grained 40.0-40.5°.
469 —	-45	SS-13 45.0-46.5' 15"		20-25-31 (58)		45.0-46.5' SAND: As above, very dense. 4" slit layer 46.0-46.3', light gray (2.5yr7/2), moist, ML. Water level 47.1'
48.4	- 50 - -	SS-14 50.0-51.5' 13"		9-14-18 (30)		50.0-51.5' <u>SAND</u> ; Clean, well graded, as above, wet, medium dense to dense. T.D. 51.5'
478 —	- %					_
474 —	90 					
	-85					-

MO	RRIS	ON KNUDS	FN	CORPORATI	'ON			Sheet 1 of.2
1		ENTAL SERVICES G	ROUP					PROJECT NUMBER
				BOREHOL	EL	OG		3843 VELL NUMBER
PROJECT						LOCATION		S48-6
EM0-(UMATILL	A ARHY DEPOT				NORTH EXPL	OSIVE WASHOUT LA	G00N
N7901		273064.41				LAYNE ENVI	ctor Ronmental Servic	ES
	SYSTEM		ALL REV	ERSE CIRCULATION		BEDRX ELEV: N/A ft.	DEPTH CASING AND SIZES 6 5/8 in O.D.	3
65 ELE 545.27		TOC ELEV:	BORE N/A	HOLE ANGLE		TOTAL DEPTH:	HOLE SIZE	
VATER U	EASURE		MO ADDI			ATE START: II-03-91	DATE FINESH	LOGGER: A. BENFER
		SAPLE		STANDARD			SOIL DESCRI	PTION
				PENETRATION TEST				
3	(leet)	TYPE AND NUMBE	A .	RESILTS	82	NAME, Gra	dation or Plasticity,	Particle Size Distribution, ve Density or Consistency.
ELEVATION	DEPTH (RECOVERY	E E	5°-5°-6°	GRAPHIC 1.06			, USCS Group Symbol
EE	<u> </u>		SAMPL	ONI	1			
	}	Buik-1 0.0-2.0'	8			Crs su	banquiar to i	fine, 10% fine to rounded gravel 1/4-1/2",
	 	2.0'	\$	15-20-31		dk bri 2.0-3.5' SAND	n (7.5 yr4/4), : As above, 2	moist, medium dense, SW "Interbedded lense of
		SS-2 2.0-3.5'		(51)			fine sand, 1"	very slity lense; very
540	_5	18"	- 1	6-10-12		4.0-5.5' SAND	; Poorly grad	led, fine, clean, -
	}	SS-3 4.0-5.5	31	(22) 7-12-13	HH	yellow dense		Dyr5/4), moist, medium
		17" SS-4		(25)	Ш	6.0-7.5' SILT:	Low plasticit	y, light olive brown very stiff (pp=2.5), ML
	-	6.0-7.5°	ĝ.	12-15-18				ed, fine, clean, dark
535	⊢ю	SS-5		(33) 10-13-15		yellow)yr4/2), moist, dense. 🗀
	-	8.0-9.5° 17"		(28)				clean, medium dense.
	}	SS-6 10.0-11.5			•••	***********		***************************************
	_ K	18"						
530	1	SS-7 15.0-18.5	(A)	14-16-16				% subangular gravel lark yellowish brown
	-	16"		(32)			4/4), moist, d	
	[-
225 —	-20							
- C2	- 1	SS-8 20.0-21.5"	1.00	16-23-17 (40)		20.5-21.5' SAN	D; As above.	i" silt lense at 20.0'.
	-	15"		(40)				-
		•						•
520	25					25 0. 25 51 51	JD. Canasa -	
-	-	SS-9 25.0-28.5'		17-24-14 (38)		suban	gular, 10% gra	lean, well graded evel 1/4"-1/2", dark
		17"				yeilow SW.	ish brown (IC)yr4/4), moist, dense,
	_							•
	—30				• • •			
					L			

MORRISON KNUDSEN CORPORATION Sheet 2 of 2 MOJELT KJHBER 3843 MK-ENVIRONMENTAL SERVICES GROUP BOREHOLE LOG WELL NUMBER S48-8 LOCATION PROJECT: EMO-UMATILLA ARMY DEPOT NORTH EXPLOSIVE WASHOUT LAGOON SOIL DESCRIPTION SAMPLE STANDARD PENETRATION TEST RESULTS GRAPHIC LOG NAME, Gradation or Plasticity, Particle Size Distribution, Color, Moisture Content, Relative Density or Consistency, Soil Structure, Mineralogy, USCS Group Symbol Geet TYPE AND NUMBER INTERVAL RECOVERY ELEVATION ह-ह-ह (N) (, , , 30.0-31.5' SAND: As above, dense. SS-10 14-24-25 30.0-31.5° (49) - 35 90 35.0-36.5' SANO; As above, dense. SS-11 20-25-15 35.0-36.5° (40)40.0-41.5' <u>SAND</u>; As above, dense, gravel to 11/2", very slity at 40.0'. 505 13-18-21 SS-12 40.0-41.5 (39) 500 45.0-46.5' SAND: As above, dense. 13-18-22 SS-13 45.0-46.5° (40) 50.0-51.5' SAND: As above, dense, wet. 13-19-28 SS-14 50.0-51.5 (45) T.D. 51.5 - 80 465 -- 65

			EN CORPORA	MOITA			Sheet 1 of 2	
MK-EN	WIRON+	ENTAL SERVICES GF	BOREH	OLFI	വദ		PROJECT HUNSER 3843	
			DOMEIN				WELL NUMBER: S4B-7	
NOJECT: MO-U		A ARMY DEPOT			LOCATION SOUTH E	XPLOSIVE WASHOUT L		
OGRODA	TES	272980.65			DATILING CO			
RDL MA	E AND NO	ŒĽ			BEDRIX ELEV:	DEPTH CASING AND SEZ		
S ELEY.	:	TOC ELEY:	LL REVERSE CIRCULA	I IUN	N/A ft.	6 5/8 in O.D. HOLE SZZE:		
544.16 ATER LE	It. VEL/DATE	N/A It.	N/A MO ADDITIVES:	In.	48.0 ft.	7 in.	ILOGGER:	
47.0 ft			RMIST		1-01-91	11-02-91	A. BENFER	
		SAMPLE	STANDARD PENETRATIO			SOIL DESC	RIPTION	
NOL	(teet)	TYPE AND NUMBER INTERVAL	TEST RESULTS		Color, I	loisture Content, Relai	y, Partigle Size Distribution, tive Density or Consistency,	
ELEVATION	ОЕРТН	RECOVERY	SAMPLE 22-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-	GRAPHIC LOG	S	oil Structure, Mineralog	yy, USCS Group Symbol	
		Bulk-1 0.0-2.0' 2.0'	# #		15% bro	rounded grave	d, fine to coarse, 10- el 1/4"-1/2", dark grayl moist, loose, minor	Isr
	- 5	SS-2 2.0-3.5' 14"	在 图		2.0-3.0' <u>SA</u> rou (10	ND: Fine silty, inded gravel, divr4/2), moist, r	ark grayish brown medium stiff, SM.	
239 —	- -	SS-3 4.0-5.5' 13"			gra 5.0-6.0' <u>SI</u> J	iyish brown <u>(</u> 10 LT: Non plastic	d, fine to coarse, dark byr4/2), moist, dense, S , fine sandy, dark byr4/2), moist, medium	;w
534 —	- - 10	SS-4 6.0-7.5' 12"	942 201		der 6.0-8.0' <u>SA</u> gra	nse, thinly lamin <u>ND:</u> Poorly gra Lylsh brown (10		ırı S
3-7	-	SS-5 8.0-9.5' 15"		000	8.0-10.0' GE Gra	vel fine to coa	nd SI: T: Interbedded. irse, clean, rounded to Silty fine sand, fine	
	- - —গ্ৰ	SS-8 10.0-11.5 17"		1 4 6 4 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6	bro Gw.	wn (10yr4/4), SM, ML, SP.	ine sand, dk yellowish moist, dense to hard, to subrounded 1/8" to	
229 —	- -	SS-7 15.0-18.5' 13"	18-18-16 (30)		1/4' bro	", 15% silt, 20% wn (10yr4/4),	sand, dark yellowish moist, dense, GM. Ity, angular to rounded	
	- - -20				me		brown (10yr5/6), moist, dense, 30% silt is, GM.	•
524		SS-8 20.0-21.5' 17"	19-25-20 (45)	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.5-21.5' G	<u>RAVEL</u> : As abo avel <3/8", der	ove, predominantly fine nse.	
519	- - -25			0000				
		SS-9 25.0-28.5° 13"	20-16-12 (28)		107		/8"-1/4", 25% sand ylsh brown (i0yr4/2), ise, GP.	
	-30							

MORRISON KNUDSEN CORPORATION

MK-ENVIRONMENTAL SERVICES GROUP

BOREHOLE LOG

Sheet 2 of 2 MOJECT HUBBER 3843 VELL NUMBER

						S48-7
PROJECT: EMO-U	MATILL	A ARMY DEPOT				LOCATION SOUTH EXPLOSIVE WASHOUT LAGOON
						
		SAPLE	T	STANDARD PENETRATION		SOIL DE SCRIPTION
ELEVATION	DEPTH (leet)	Type and number Interval Recovery	SAMPLE	Color, Moisture C		NAME, Gradation or Plasticity, Particle Size Distribution, Color, Moisture Content, Relative Density or Consistency, Soil Structure, Mineralogy, USCS Group Symbol
9		SS-10 30.0-31.5'	S	15-17-21 (38)	000	30.0-31.5' GRAVEL: As above, minor silt lumps, 15% silt, dense, GM.
50 9	-35	SS-11 35.0-36.5' 12"		15-18-17 (35)		35.0-38.5' <u>SAND</u> ; Clean to silty, fine to coarse. interbedded, yellow brown (10yr5/8), moist, dense, SP, SW, SM.
504	-40 -	SS-12 40.0-41.5' 12"		32-24-28 (50)		40.0-41.5 SAND; 15% gravel, up to 2", clean, angular to subrounded, dark yellowish brown (10yr4/4), dense to very dense, SW,
499 —	45	SS-13 45.0-46.5' 16"		22-24-27 (51)		45.0-48.5' SAND; Well graded, fine to coarse, 15% — fine gravel, clean, dark yellow brown (10yr4/4), very dense, bottom 2" wet, SW. Water level at 47.0' T.D. 48.0'
194 —	- 50 -					-
469	- 55 -					·
464	- -50 -					
	65					-

				CORPORATI	ON	3		Sheet 1 of 2
MK-E	NVIRGN	ENTAL SERVICES		BOREHOL	EL	OG		MOJECT MARGER. 3843
								vell nimber S48-8
ROJECT EMO-I		A ARMY DEPOT				LOCATIO SOUTI	R 1 EXPLOSIVE WASHOUT I	LAGOON
00000N N7901		273041.49					CONTRACTOR ENVIRONMENTAL SERV	TCES
	SYSTEM		WALL RE	VERSE CIRCULATION		BEDRX ELEV: N/A ft.	DEPTH CASING AND SE 8 5/8 in O.D.	7ES.
S ELEY 545.25		TOC ELEV: N/A It.	BORE N/	EHOLE ANGLE A		TOTAL DEPTH: 51.5 it.	HOLE SIZE: 7 in.	
ATER LE 48.0 1	EVEL/DATE		ATER MIS		(DATE START: 11-02-91	DATE FINISH 11-03-91	LOGGER A. BENFER
		SAMPLE		STANDARD			S01L DE S0	PIPTION
				PENETRATION TEST				
ELEVATION	H (feet)	TYPE AND NUME INTERVAL RECOVERY		RESULTS	SRAPHIC LOG			y, Particle Size Distribution, tive Density or Consistency, my, USCS Group Symbol
ELEV	DEPTH		HIGH	622.	GRAP			47, 0000 0000 07,000
		Bulk-1 0.0-2.0' 2.0'	74.1V			· gi		n, 10% 1/2"—1" rounded rown (10yr6/2), maist.
	_	55-2 2.0-3.5'		3- 5- 6 (11)		2.0-3.5° 5	SAND: As above, ense.	trace gravel, medium
540	-5	18"		4- 6- 8 (14)		4.0-5.5'	SAND: As above	
	<u>-</u>	SS-3 4.0-5.5' 13"	8	15-18-21 (39)		V	ellowish brown (20% slit at 6.5 to7.5, 10yr8/8), dense, SM.
	-10	55-4 6.0-7.5° 18"	2	21-28-31 (59)		6.0-9.5	10yr6/8), moist,	it, yellowish brown very dense, SP.
535 —	-	SS-5 8.0-9.5' 18"		29-31-34 (65)		d	SAND; 40% grave ark yellowish bro ery dense SW.	el 1/4" to 1", clean, own 10yr4/4), moist,
	-	SS-6 10.0-11.5 15"			00		******	
ಽಽ೦ –	≾ -	SS-7 15.0-18.5'		24-34-36 (70)	000	15.0-18.5°	GRAVEL: Angulai rown (10yr5/3), i	r, 25% sand, 5% slit, moist, very dense, GP.
	-	18"			000			
525 —	- -x	SS-8	2.1	27-20-32	00	20.5-21.5	GRAVEL: As abo	ove.
	-	20.0-21.5° 18"		(52)	000			
S20 —	- -25				o°o o°o			
	-	SS-9 25.0-26.5' 18"		23-27-28 (ES)	0 0		'GRAVEL: As abo 3.0', GM.	ove, GP, 25% slit 25.5-
	- -							
	-30							

MORRISON KNUDSEN CORPORATION

MK-ENVIRON-ENTAL SERVICES GROUP

BOREHOLE LOG

Sheet 2 of 2 MOJECT ANFOR 38 13 VALLY FOR

						£10 a
MARCETI. EDHO-U	MATILU	A ARMY DEPOT				SOUTH EXPLOSIVE WASHOUT LACOUR
		SAMPLE		STANDARD		SOIL DESCRIPTION
ELEVATION	OEPTH (teet)	TYPE AND NUMBER INTERVAL RECOVERY	SAMPLE	PENETRATION TEST RESULTS 8"-8"-8" OII	GRAPHIC LOG	NAME, Gradation or Plasticity, Particle Sine Entrolution, Color, Moisture Content, Reference しゃい or sistency, Soil Structure, Mineral では、USCS いた ついずにあら
		SS-10 30.0-31.5' 17"	17.00	31-36-38 (74)		30.0-31.5' SAND: Well graded, Ft. ' gravel, sand and gravel angule to subrounded, gravel 1/4"-1/2", brown (10yr4/4), moist, very dense, SW.
50	-35 -	SS-11 35.0-36.5' 18"	.¢	27-30-24 (51)		35.0-38.5' <u>SAND</u> ; Well graded, Coarse angular, trace gravel, brown (10yr4/4), moist, very dense, SW.
505 - -	-40	SS-12 40.0-41.5' 18"	1.1.	27-34-38 (72)		40.0-41.5' <u>SAND</u> : As above, 10% gravel, very dense.
500	-45	SS-13 45.0-46.5° 18"	,	23-33-47 (80)		45.0-48.5' SAND: As above, trace gravel, very dense. Water level 48.0'
495 —	50 	SS-14 50.0-51.5'	3	10-15-21 (36)		50.0-51.5' <u>SAND</u> ; As above, wet, dense. T.D. 51.5'
490 —	- S					
485	- - - - -					
	-85					

Appendix C
Laboratory Results of
Soil Samples

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

Site: BORE \$048005

SAMPLE	SAMPLE	TEST				
DEPTH (f		METHOD	COMPOUND	2001		
*****	*******	mc i mou	COMPOUND	BOOL	CONCENTRATION	UNITS
4.0	03-nov-1991	00	ALK	••••	/ *******	*****
10.0	03-nov-1991	00	ALK		4.80e+01	UGG
0.0	03-nov-1991	00	ALK		5.20e+01	UGG
0.0	03-nov-1991	80		LT	2.50+01	UGG
10.0	03-nov-1991	00	PH		7.64e+00	
4.0	03-nov-1991	00	PH Pfi		8.11@+00	
10.0	03-nov-1991	00			8.19++00	
0.0	03-nov-1991	00	TOC		8.08+02	UGG
4.0	03-nov-1991	00	TOC:		8.92+02	UGG
7.0	03-104-1991	w	TOC		3.33++03	UGG
0.0	03-nov-!991	J#01	NG	LT	5.00e-02	ugg
4.0	03-nov-1991	J#O1	HG	LT	5.00e-02	UGG
10.0	03-nov-1991	JE01	NG	LT	5.00e-02	UGG
				•	3.004-06	LAGIG.
0.0	03-nov-1991	JD15	SE	LT	2.50e-01	UGG
4.0	03-nov-1991	JD 15	SE	LT	2.50e-01	UGG
10.0	03-nov-1991	JD 15	SE	LT	2.50e-01	UGG
					0.500	-
4.0	03-nov-1991	J917	PS		4.30e+00	ugg
0.0	03-nov-1991	17 عد	PS		6.77*+00	UGG
10.0	03-nov-1991	JD17	PS		8.220+00	UGG
						•••
10.0	03-nov-1991	JD 19	AS		1.12++00	ugg
0.0	03-nov-1991	JD19	AS .		1.26++00	UGG
4.0	03-nov-1991	JD 19	AS		1.72=+00	UGG
						•••
0.0	03-nov-1991	J\$16	AG		7.22e-01	UGG
10.8	03-nov-1991	J\$16	AG		9.02-01	uce
4.0	03-nov-1991	JS16	AG		1.04e+00	UGG
0.0	03-nov-1991	JS16	AL		5.45e+03	UGG
4.0	03-nov-1991	J\$16	AL		5.67e+03	UGG
10.0	03-nov-1991	J\$16	AL		6.05++03	UGG
0.0	03-nov-1991	JS16	BA		7.86e+J1	UGG
4.0	03-nov-1991	J\$16	BA		9.44+01	UGG
10.0	03-nov-1991	J\$16	BA		9.63+01	UGG
0.0	03-nov-1991	J\$16	8E		1.64++00	UGG
4.0	03-nov-1991	JS16	BE		1.75++00	UGG
10.0	03-nov-1991	J516	38		1.75e+00	UGG
0.0	03-nov-1991	J\$16	CA		3.83e+03	UGG
4.0	03-nov-1991	J\$16	CA		9.20e+03	UGG
10.0	03-nov-1991	J\$16	CA		9.77+03	UGG
0.0	03-nov-1991	J\$16	œ	LT	7.00e-01	UGG
4.0	03-nov-1991	J\$16	œ	LT	7.00e-01	UGG
10.0	03-nov-1991	J\$16	æ	L7	7.00e-01	UGG
10.0	03-nov-1991	J516	æ		1.18e+01	UGG
0.0	03-nov-1991	J\$16	œ		1.24+01	UGG
4.0	03-nov-1991	J\$16	co		1.33e+01	UGG
10.0	03-nov-1991	J\$16	CR .		6.210+00	UGG
			•		-1614-00	UW

Analytical Results for Chemical Soil

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From: 31-oct-91 To: 19-mar-92

Site: BORE \$048005 (continued)

SAMPLE	SAMPLE	TEST				
DEPTH (ft) DATE	HETHOD	COMPOUND	BOOL	CONCENTRATION	UKITS
*****	*******		••••••			*****
0.0	03-nov-1991	J\$16	CR		7.76e+00	UGG
4.0	03-nov-1991	JS16	CR		8.48e+00	UGG
0.0	03-nov-1991	JS16	a		1.13e+01	UGG
4.0	03-nov-1991	J\$16	CU CU		1.39 e+ 01	UGG
10.0	03-nov-1991	J\$16	a		1.74e+01	UGG
10.0	03-nov-1991	J\$16	FE		2.13e+04	UGG
0.0	03-nov-1991	JS16	FE		2.23e+04	UGG
4.0	03-nov-1991	J\$16	FE		2.41e+04	UGG
10.0	03-nov-1991	JS16 -	K		8.70 <+ 02	UGG
4.0	03-nov-1991	JS16	K		9.05+02	UGG
0.0	03-nov-1991	JS16	K `		9.97e+02	USG
10.0	03-nov-1991	JS16	MG		4.27e+03	UGS
0.0	03-nov-1991	JS16	MG		4.44+03	UGG
4.0	03-nov-1991 ·	J\$16	HG		5.27e+03	UGG
0.5	03-nov-1991	JS16	HM		3.08e+02	UGĢ
10.0	03-nov-1991	J\$16	MM		3.10e+02	UCG
4.0	03-nov-1991	JS16	PM		3.81e+02	UGG
0.0	03-nov-1991	J\$16	HA		2.82+02	UGG
4.0	03-nov-1991	J\$16	MA		3.04++02	UGG
10.0	03-nov-1991	JS16	MA		3.60+02	UGG
10.C	03-nov-1991	JS16	MI		5.98e+00	UGG
4.0	03-nov-1991	J\$16	MI		8.09e+00	UGG
6.0	03-nov-1991	JS16	NI		9.48++00	UGG
0.0	03-nov-1991	JS16	58	LT	7.14e+00	UGG
4.0	03-nov-1991	J\$16	58	LT	7.14e+00	UGG
10.0	03-nov-1991	J\$16	58	LT	7,14e+00	UGG
10.0	03-nov-1991	J\$16	TL		1.60++01	UGG
0.0	03-nov-1991	J\$16	TL		1.78e+01	UGG
4.0	03 -nov-1991	J\$16	TL		3.10e+01	UGG
0.0	03-nov-1991	JS16	٧		7.08e+01	UGG
10.0	03-nov-1991	J\$16	٧		7.44+01	UGG
4.0	03-nov-1991	J\$16	٧		7.80e+01	UGG
10.0	03-nov-1991	J\$16	ZM		4.21 e+ 01	UGG
0.0	03-nov-1991	J\$16	ZM		4.71 e+ 01	UGG
4.9	03-nov-1991	J\$16	ZX		5.28++01	USG
4.0	03-nov-1991	KF10	MIT		1.82=+00	UGG
45.0	03-nov-1991	KF10	NIT		3.25e+00	UGG
50.0	03-nov-1991	KF10	NIT		3.54++00	UGG
2.0	03-nov-1991	KF10	NIT		5.20e+00	UGG
8.0	03-nov-1991	KF10	NIT		4.82e+00	UGG
0.0	03-nov-1991	KF10	HIT		1.10e+01	UGG
6.0	03-nov-1991	KF10	NIT		1.10e+01	UGG
35.0	03-nov-1991	KF10	NIT		2.70e+01	UGG
40.0	03-nov-1991	KF10	MIT		2.70e+01	UGG
20.0	03-nov-1991	KF10	NIT		3.40e+01	UGG
10.0	03-nov-1991	KF10	NIT		3.70e+01	UGG
25.0	03-nov-1991	KF10	MIT		5.60e+01	UGG

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Analytical Results for Chemical Soil

From: 31-oct-91 To: 19-mar-92

Site: BORE \$048005 (continued)

SAMPLE	SAMPLE	TEST				
DEPTH (ft		METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
*****	*******	*****	*******	••••		OR (1.3
30.0	33-nov-1991	KF10	MIT		6.00e+01	UGG
30.0	03-nov-1991	KF10	MIT		6.30e+01	UGG
15.0	03-nov-1991	KF1G	MIT		9.00e+01	UGG
		A7 10			7.000101	Ulgia
0.0	03-nov-1991	LH10	ABHC	LT	9.07e-03	USG
4.0	03-nov-1991	LH10	ASHC	LT	9.07-03	UGG
10.0	03-nov-1991	LH10	ARHC	LT	9.07e-03	UGG
0.6	03- nov-1991	LH10	AENSLF	LT	6.02e-03	UGG
4.0	03-nov-1991	LH10	AENSL#	LT	6.02e-03	UGG
10.0	03-nov-1991	LH10	AENSLF	LT	6.02e-03	UGG
0.0	03-nov-1991	LH10	ALDRN	LT	7.29e-03	UGG
4.0	03-nov-1991	LH10	ALDRN	LT	7.29e-03	UGG
10.0	03-nov-1991	LH10	ALDRM	LT	7.29e-03	UGG
0.0	03-nov-1991	LH10	BBHC	LT	2.57e-03	UGG
4.0	03-nov-1991	LH10	SSHC	LT	2.57e-03	UGG
10.0	03-nov-1991	LH10	BBHC	LT	2.57e-03	UGG
0.0	03-nov-1951	LH10	BENSLF	LT	6.63e-03	
4.0	03-nov-1991	LH10	BENSLF	LT	6.63e-03	UGG UGG
10.0	03-nov-1991	LHIO	BENSLF	LT	6.63e-03	UGG
0.0	03-nov-1991	LX10	DEHC	LT	5.55e-03	UGG
4.0	03-nov-1991	LH10	DBHC	LT	5.55e-03	UGG
10.0	03-nov-1991	LH10	DBHC	LT	5.55e-03	UGG
0.0	03-nov-1991	LH10	DLDRN	LT	6.27e-03	UGG
4.0	03-nov-1991	LH10	DLDRN	LT	6.299-03	UGG
10.0	03-nov-1991	LH10	DLDAN	LT	6.294-03	UGG
0.0	03-nov-1991	LH10	ENDRH	LT	6.57e-03	UGG
4.0	03-nov-1991	LH10	ENDRN	LT	6.57e-03	UGG
10.0	03-nov-1991	LH10	ENDRN	LT	6.57e-03	UGG
0.0	03-nov-1991	LH10	ENORNA	LT	2.40e-02	UGG
4.0	03-nov-1991	LH10	ENDRHA	LT	2.40e-02	UGG
10.0	03-nov-1991	LH10	ENDRNA	LT	2.40e-02	UGG
0.0	03-nov-1991	LH10	ENDRNK	MO	2.400-02	UGG
4.0	03-nov-1991	LH10	ENDRNK	NO NO	2.40e-02	UGG
10.0	63-nov-1991	LH10	ENDRNK	MD	2.40e-02	966
0.0	03-nov-1991	LH10	ESFS04	LT	7.63e-03	UGG
4.0	03-nov-1991	LH10	ESFS04	LT.	7.634-03	UGG
10.0	03-nov-1991	LH10	ESFS04	LT	7.634-03	UGG
0.0	03-nov-1991	LH10	HPCL	LT	6.18e-03	UGG
4.0	03-nov-1991	LH10	HPCL	LT	6.18e-03	UGG
10.0	03-nov-1991	LH10	HPCL	LT	6.18e-03	UGG
0.0	03-roy-1991	LH10	HPCLE	LT	6.20e-03	UGG
4.0	03-nov-1991	LH10	HPCLE	LT	6.20e-03	UGG
10.0	03-nov-1991	LH10	HPCLE	LT	6.20e-03	UGG
0.0	03-nov-1991	LH10	ISOOR	LT	4.61e-03	
4.0	03-nov-1991	LH10	ISODR	LT	4.61e-03	UGG
10.0	03-nov-1991	LH10	ISODR	LT	4.61e-03	UGG
0.0	03-nov-1991	LH10	LIN	LT	4.81e-03 6.38e-03	UGG
4.0	03-nov-1991	LH10	LIN	LT		UGG
7.0	44 INT 1771	CHIO	F144	L I	6.38e-03	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

			••••			
SAMPLE	SAMPLE	TEST				
DEPTH (f		METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
10.0	03-nov-1991	1 410			4 7007	
0.0	03-nov-1991	LH10	LIN	LT	6.38e-03	UGG
4.0	03-nov-1991	LH10 LH10	MEXCLR MEXCLR	LT LT	7.11e-02	UGG
10.0	03-nov-1991				7.11e-02	UGG
0.0	03-nov-1991	LH10	MEXCLR PPOOD	LT LT	7.11e-02	UGG
4.0	03-nov-1991	LH10 LH10	PP000		8.26e-03	UGG
10.0	03-nov-1991	LH10	PP000	LT LT	8.26e-03 8.26e-03	UGG UGG
0.0	03-nov-1991	LH10	PPDDE	LT	7.65e-03	UGG
4.0	03-nov-1991	LH10	PPOOE	LT	7.65e-03	UGG
10.0	03-nov-1991	LH10	PPDDE	LT	7.65e-03	UGG
0.0	03-nov-1991	LH10	PPOST	LT	7.07e-03	UGG
4.0	03-nov-1991	LH10	PPOOT	LT	7.07e-03	UGG
10.0	93-nov-1991	LH10	PPDOT	LT	7.07e-03	UGG
0.0	03-nov-1991	LH10	TXPHEN	LT	4.44e-01	UGG
4.0	03-nov-1991	LH10	TXPHEN	LT	4.44e-01	UGG
10.0	Q3-nov-1991	LH10	TXPHEN	LT	4.44e-01	UGG
		2	TAT IISA	••	7,446 01	
0.0	03-nov-1991	LH16	PCB016	LT	6.66e-02	UGG
4.0	03-nov-1991	LH16	PCB016	LT	6,66e-02	UGG
10.0	03-nov-1991	LH16	PC8016	LT	6,664-02	UGG
0.0	03-nov-1991	LH16	PC8221	MO	8.20e-02	UGG
4.0	03-nov-1991	LH16	PC8221	MO	8.20e-02	UGG
10.0	03-nov-1991	LH16	PC8221	10	8.20e-02	UGG
0.0	03-nov-1991	LH16	PCB232	MO	8.20e-02	UGG
4.0	03-nov-1991	LH16	PC#232	NO	8.20e-02	UGG
10.0	03-nov-1991	LH16	PC8232	NO	8.20e-02	UGG
0.0	03-nov-1991	LH16	PCB242	HO	8.20e-02	UGG
4.0	03-nov-1991	LH16	PC8242	MO	8.20e-02	UGG
10.0	03-nov-1991	LH16	PC8242	MO	8.20e-02	UGG
0.0	03-nov-1991	LH16	PC8248	KO	8.20e-02	UGG
4.0	03-nov-1791	LH16	PCB248	HD	8.20e-02	UGG
10.0	03-nov-1991	LH16	PCBZ48	MO	8.20e-02	UGG
0.0	03-nov-1991	LH16	PC8254	MO	8.20e-02	UGG
4.0	03-nov-1991	LH16	PCB254	MO	8.20e-02	UGG
10.0	03-nov-1991	LH16	PC8254	MD	8.2002	UGG
0.0	03-nov-1991	LH16	PC8260	LT	8.04e-02	UGG
4.0	03-nov-1991	LH16	PC8260	LT	8.04e-02	UGG
10.0	93- nov- 1991	LH16	PC8260	LT	8.04e-02	UGG
			49155			
0.0	03-nov-1991	LM18	124TCB	LT	4.00e-02	UZG
4.0	03-nov-1991	LM18	124TC8	LT	4.00e-02	UGG
10.0	03-nov-1991	LM18	124108	LT	4.00e-02	UGG
0.0	03-nov-1991	LM18	120CL8	LT	1.10e-01	UGG
4.0	03-nov-1991	LH18	120CL8	LT	1,10e-01	UGG
10.0	03-nov-1991	LH18	120CL8	LT	1.10e-01	UGG
0.0	03-nov-1991	LM18	120PH	NO HD	1.40e-01	UGG
4.0	03-nov-1991	LM18	120PH	MO	1.40e-01	UGG
10.0	03-nov-1991	LM18	120PH	MO	1.40e-01	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

(continued)

Site: BORE 5048005

SAPLE SAMPLE TEST DEPTH (ft) DATE METHOD COMPOUND BOOL CONCENTRATION WITS 10.0 03-nov-1991 LH18 12EPCH 2.150-01 UCC 0.0 03-nov-1991 LH18 12EPCH 3.15e-01 UCE 4.0 03-nov-1991 LH18 12EPCH 3.15e-01 UCE 0.0 03-nov-1991 UH18 130CLB LT 1.30e-01 HEE 4.0 03-nov-1991 LM18 130CLB LT 1.30e-01 ucc 10.0 03-nov-1991 LM18 130CLB LT 1.30e-01 UCE 0.0 03-nov-1991 LH18 140CLB 9.804-02 LT UCC 03-nov-1991 4.0 LH18 140CLB LT 9.80e-02 ucc 10.0 03-nov-1991 LH18 140CL8 LT 9.804-02 122 0.0 03-nov-1991 **LH18** 245TCP LT 1.00e-01 UCE 4.0 03-nov-1991 LH18 2451CP 1.00e-01 LT UCG 10.0 03-nov-1991 LH18 2451CP LT 1.00e-01 UCC 0.0 03-nov-1991 LH18 246TCP LT 1.70e-01 1226 4.0 03-nov-1991 LH18 2461C2 LT 1.70e-01 uce 10.0 03-nov-1991 UH18 2461CP LT 1.70e-01 UCC 0.0 03-nov-1991 LH18 24DCLP LT 1.80e-01 uee 4.0 03-nov-1991 LM18 240CLP LT 1.80e-01 UEG 10.0 03-nov-1991 LH18 24DCLP LT 1.80e-01 UCG 0.0 03-nov-1991 LH18 24DMPH LT 6.90e-01 VCC 4.0 03-nov-1991 LH18 ZADMPN LT 6.90e-01 LICC 10.0 03-nov-1991 LH18 24DMPN LT 6.90e-01 UCC 0.0 03-nov-1991 LH18 24DHP LT 1.20+60 UCE 4.0 03-nov-1991 LH18 240MP 1.20e+00 LT uce 10.0 03-nov-1991 LH18 240MP LT 1.20e+00 VCE 10.0 03-nov-1991 LH18 **240NT** 1.84++00 UCE 0.0 03-nov-1991 LX18 240NT LT 1.40e-01 UCC 4.0 03-nov-1991 LH18 240HT LT 1.40e-01 UCC 0.0 03-nov-1991 LM18 260NT LT 8.50e-02 UCG 4.0 93-nov-1991 LH18 260NT LT 8.50e-02 ues 10.0 03-nov-1991 LH18 260HT LT 8.50e-02 UCG 0.0 03-nov-1991 LH18 2CLP LT 6.00e-02 UCE 4.0 03-nov-1991 LH18 **ZCLP** LT 6.00e-02 ععتا 10.7 03-nov-1991 LN18 2CLP LT 6.00e-02 UCE 0.0 03-nov-1991 LH18 **2CXAP** 3.60e-02 LT UCE 4.0 03-nov-1991 LM18 2CHAP 3.60--02 LT ucc 10.0 03-nov-1991 UH18 2CHAP 3.60e-02 UCG 0.0 03-nov-1991 LH18 ZWAP LT 4.90e-02 UCE 4.0 03-nov-1991 LH18 ZHIAP LT 4.90e-02 ues 10.0 03-nov-1991 1418 2000AP 4.904-02 LT 220 0.0 03-nov-1991 UH18 24 LT 2.90e-02 UCC 4.0 03-nov-1991 LH18 200 LT 2.90e-02 UGG 10.0 03-nov-1991 LH18 24 LT 2.904-02 uce 0.0 03-nov-1991 LH18 ZNANTL LT 6.20e-02 UCC 4.0 03-nov-1991 LH18 JI HAKS LT 6.20e-02 UCG 10.0 03-nov-1991 LHIR LINANS LT 6.20e-02 UCE 0.0 03-nov-1991 LH18 2NP LT 1.404-01 UCG 4.0 03-nov-1991 LM18 ZXO LT 1,400-01 UGG 10.0 03-nov-1991 LM18 2xP

LT

1.40e-01

UCG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

		Site: B	ORE S048005	(conti	nued)	
SAMPLE	SAMPLE	TEST				
DEPTH (ft)) DATE	METHO		BOCL	CONCENTRATION	UNITS
•••••				••••	4.70.00	*****
0.0	03-nov-1991	LH18		LT	6.30+00	UGG
4.0	03-nov-1991	LM18	330CB0	LT	6.30++00	UGG
10.0	03-nov-1991	LX18	330C20	LT	6.30e+00	UGG
0.0	03-nov-1991	LH18		LT	4.50e-01	UGG
4.0	03-nov-1991	LN18		LT	4.50e-01	UGG
10.0	03-nov-1991	LM18	3NAN1L	LT	4.50a-01	UGG
0.0	03-nov-1991	LH18	46DNZC	LT	5.50e-01	UGG
4.0	03-nov-1991	LM18	460N2C	LT	5.50e-01	UGG
10.0	03-nov-1991	LH18	460N2C	LT	5.50e-01	UGG
0.0	03-nov-1991	LH18	48RPPE	LT	3.30e-02	UGG
4.0	03-nov-1991	LH18	48RPPE	LT	3.30e-02	UGG
10.0	03-nov-1991	LH18	48RP9E	LT	3.30e-02	UGG
0.0	03-nov-1991	LH18	4CANIL	LT	8.10e-01	UGG
4.0	03-nov-1991	LM18	4CANIL	LT	8.10e-01	UGG
10.0	03-nov-1991	LM18	4CANIL	LT	8.10e-01	UGG
0.0	03-nov-1991	LH18	4CL3C	LT	9.50e-02	UGG
4.0	03-nov-1991	LM18	4CL3C	LT	9.50a-02	UGG
10.0	03-nov-1991	LM18	4CL3C	LT	9.50e-02	UGG
0.0	03-nov-1991	LM18	4CLPPE	LT	3.30e-02	UGG
4.0	03-nov-1991	LM18	4CLPPE	LT	3.3002	UGG
10.0	03-nov-1991	LM18	4CLPPE	LT	3.304-02	UGG
0.0	03-nov-1991	LH18	4149	LT.	2.40e-01	UGG
4.0	03-nov-1991	L#18	440	LT	2.40e-01	UGG
10.0	03-nov-1991	LM18	4469	LT	2.40e-01	UGG
0.0	03-nov-1991	LH18	ANANIL	LT	4.10e-01	UGG
4.0	03-nov-1991	LH18	4NAN I L	LT	4.10e-01	UGG
10.0	03-nov-1991	LH18	4MANIL	LT	4.10e-01	UGG
0.0	03-nov-1991	LM18	4NP	LT	1.40e+00	UGG
4.0	03-nov-1991	LH18	4MP	LT	1.40++00	UGG
10.0	03-nov-1991	LH18	4NP	LT	1.40#+00	UGG
0.0	03-nov-1991	LH18	ABHC	MD	2.70e-01	UGG
4.0	03-nov-1991	LH18	ASHC	MO	2.70e-01	UGG
10.0	03-nov-1991	LH18	ASHC	NO	2.70e-01	UGG
0.0	03-nov-1991	LH18	ACLDAN	NO	3.30e-01	UGG
4.0	03-nov-1991	LH18	ACLDAN	MD	3.30e-01	UGG
10.0	03-nov-1991	LH18	ACLDAN	MO	3.30e-01	UGG
0.0	03-nov-1991	LM18	aenslf	MD	6.20e-01	UGG
4.0	03-nov-1991	LM18	AENSLF	MO	6, 20e-01	UGG
10.0	03-nov-1991	LM18	aenslf	MD	6.204-01	UGG
0.0	03-nov-1991	LH18	ALDRN	MO	3.30e-01	UGG
4.0	03-nov-1991	LM18	ALDRN	NC	3.30e-01	UGG
10.0	03-nov-1991	LM18	ALDRM	MD	3.304-01	UGG
0.0	03-nov-1991	LM18	ANAPHE	LT	3.60e-02	UGG
4.0	03-nov-1991	LH18	ANAPHE	LT	3.60e-02	UGG
10.0	03-nov-1991	LH18	ANAPHE	LT	3.600-02	UGG
0.0	03-nov-1991	LM18	AHAPYL	LŤ	3.30e-02	UGG
4.0	03-nov-1991	LM18	ANAPYL	LT	3.304-02	UGG
10.0	03-nov-1991	LH18	ANAPYL	LT	3.30e-02	UGG

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SAPLE SAMPLE TEST DEPTH (ft) DATE METHOD COMPOUND SCOL CONCENTRATION WITS ------.... ********** 0.0 03-nov-1991 LH18 ANTRO LT 3.30e-02 ucc 4.0 03-nov-1991 LH18 ANTRO LT 3.30e-02 UGG 10.0 03-nov-1991 LH18 ANTRO 3.30e-02 UGG LT 0.0 03-nov-1991 LMIA B2CEXX LT 5.90e-02 UGG 4.0 03-nov-1991 LH18 B2CEXM LT 5.9Ge-02 ucc 10.0 03-nov-1991 LH18 82CEXM LT 5.90e-02 UGG 0.0 03-nov-1991 LH18 B2CIPE LT 2.00e-01 UGG 4.0 03 -nov-1991 LH18 BZCIPE LT 2.00e-01 UGG 10.0 03-nov-1991 LH18 BZCIPE 17 2.00e-01 ucc 0.0 03-nov-1991 LH18 B2CLEE 3.30e-02 LT UGG 4.0 03-nov-1991 LHIR BZCLEE LT 3.30e-02 UGG 10.0 03-nov-1991 **LH18** BZCLEE 3.30e-02 LT UCG 0.0 03-nov-1991 LM18 82EHP 6.20e-01 LT LICC 4.0 03-nov-1991 **LH18** BZEHP LT 6.20e-01 UGG 10.3 03-nov-1991 LH18 82EHP LT 6.20e-01 UGG 0.0 03-nov-1991 LH18 BAANTR 1.70e-01 LT UGG 4.0 03-nov-1991 LM18 BAANTR LT 1.704-01 UCG 10.0 03-nov-1991 UH18 BAANTR LT 1.70e-01 UGG 0.0 03-nov-1991 LH18 BAPYE LT 2.50e-01 UGG 4.0 03-nov-1991 LM18 BAPTE LT 2.504-01 1166 10.0 03-nov-1991 LH18 BAPYR ĻT 2.50e-01 VGG 0.0 03-nov-1991 LH18 REFAMT LT 2.10e-01 UGG 4.0 03-nov-1991 LH18 BEFANT 2.10e-01 L7 ucc 10.0 03-nov-1991 LH18 BBFANT LT 2.10e-01 UGG 0.0 03-nov-1991 LH18 SSHC 10 2.70e-01 ucc 4.0 03-nov-1991 LH18 BUNC NO 2.70e-01 UCG 10.0 03-nov-1991 LH18 BEHC MD 2.70e-01 UGG 0.0 03-nov-1991 LH18 BBZP LT. 1.70e-01 UGG 4.0 03-nov-1991 LM18 **88**ZP LT 1.70e-01 UCC 10.0 03-nov-1991 LH18 BBZP LT 1.70e-01 UGG 0.9 03-nov-1991 LH18 BENSLF MD 6.20e-01 UGG 4.0 03-nov-1991 LH18 BENSLF МО 6.20e-01 UCC 03-nov-1991 10.0 LH18 BENSLF MD 6.20e-01 UCG 0.0 03-nov-1991 LH18 BENZID MO 8.50e-01 UGG 4.0 03-nov-1991 **LH18** BENZID MD. 8.50e-01 UGG 10.0 03-nov-1991 LH18 BENZID MD 8.50e-01 UCG 0.0 03-nov-1991 LM18 BENZOA MO 6.10++00 UGG 4.0 03-nov-1991 LH18 BENZOA MO 6.10++00 UGG 10.0 03-nov-1991 LH18 BENZOA ND 6.10+00 UGG 0.0 03-nov-1991 LHIS BGHIPY LT 2.50e-01 UGG 4.9 03-nov-1991 LH18 SCHIPY 2.50--01 LT UGG 16.0 03-nov-1991 LH18 BGHIPY LT 2.50e-01 UGG 03-nov-1991 0.0 LM18 BKFANT LT 6.60e-02 UGG 4.0 03-nov-1991 LM18 REFAMT 6.604-02 LT UGG 10.0 03-nov-1991 **LH18** BKFANT 6.60e-02 LT HCC 0.0 03-nov-1991 LH18 BZALC LT 1.90e-01 UGG 4.0 03-nov-1991 LHIS BZALC LT 1.90e-01 UGG 10.0 03-nov-1991 LM18 BZALC L T 1.90e-01 UGG

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Analytical Results for Chemical Soil
From: 31-oct-91 To: 19-mar-92

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SAMPLE	SAMPLE	TEST				
DEPTH (ft		METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
	.,			••••	COACCATRATION	
0.0	03-nov-1991	L#:18	CHRY	LT	1.20e-01	UGG
4.0	03-nov-1991	LH18	CHRY	LT	1.20e-01	UGG
10.0	03-nov-1991	LH18	CHRY	LT	1.20e-01	UGG
0.0	03-nov-1991	LH18	CL68Z	LT	3.30e-02	UGG
4.0	03-nov-1991	LM18	CL68Z	LT	3.30e-02	UGG
10.0	03-nov-1991	LH18	CL68Z	LT.	3.30e-02	UGG
0.0	03-nov-1991	LM18	CLOCP	LT	6.20e+00	UGG
4.0	03-nov-1991	LH18	CLECP	LT	6.20e+00	UGG
10.0	03-nov-1991	LM18	CL6CP	LT	6.20e+00	UGG
0.0	03-nov-1991	LM18	CLGET	LT	1.50e-01	UGG
4.0	03-nov-1991	LM18	CLGET	LT	1.50a-01	
10.0	03-nov-1991	LM18		LT	1.50e-01	UGG
0.0	03-nov-1991	LM18	CLEET	LT		UGG
4.0	03-nov-1991	LM18	DBAHA	LT	2.10e-01 2.10e-01	UGG UGG
10.0	03-nov-1991	LM18	DBAHA	LT	2.10e-01 2.10e-01	
0.0	03-nov-1991	LM18	DBANA	_		UGG
4.0	03-nov-1991		DENC	ND ND	2.70e-01	UGG
10.0	03-nov-1991	LM18	DBHC	NO.	2.70e-01	UGG
0.0	03-nov-1991	LM18	DEHC	MD	2.70e-01	UGG
4.0	03-nov-1991	LM18	DEZFUR	LT	3.50e-02	UGG
10.0	03-nov-1991	LM18	DEZFUR	LT	3.50e-02	UGG
0.0	03-nov-1991	LM18	DBZFUR	LT	3.504-02	UGG
4.0	03-nov-1991	LM18	DEP	LT	2.40e-01	UGG
	03-nov-1991	LM18	DEP	LT	2.40e-01	UGG
10.0 0.0	03-nov-1991	LM18	DEP	LT	2.40e-01	UGG
4.0	03-nov-1991	LN18	DLDRN	NO NO	3.10e-01	UGG
10.0	03-nov-1991	LM18	OLDRN	NO.	3.10e-01	UGG
0.0		LM18	DLDRN	NO.	3.10e-01	UGG
	03-nov-1991	LM18	DMP	LT	1.70e-01	UGG
4.0	03-nov-1991	LM18	DMP	LT	1.70e-01	UGG
10.0 0.0	03-nov-1991 03-nov-1991	LM18	DMP	LT	1.70e-01	UGG
4.0	03-nov-1991	LM18	DNBP	LT	6.104-02	UGG
10.0	03-nov-1991	LH18	DNBP	LT	6.10e-02	UGG
0.0	03-nov-1991	LM18 LM18	DNBP	LT	6.10e-02	UGG
4.0	03-nov-1991	-	DHOP	LT	1.90e-01	UGG
10.0	03-nov-1991	LK18	DNOP	LT	1.90e-01	UGG
	03-nov-1991	LH18	QOKO	LT	1.50e-01	UGG
0.0 4.0	03-nov-1991	LM18	ENORN	MO	4.50e-01	UGG
10.0	03-nov-1991	LM18	ENDRN	W	4.50e-01	UGG
		LX18	ENDRN	HO	4.504-01	UGG
0.0	03-nov-1991	LM18	ENORNA	ND	5.30e-01	UGG
4.0	03-nov-1991	LM18	ENDRNA	ND ND	5.30e-01	UGG
10.0	03-nov-1991	LM18	ENORNA	ND	5.30e-01	UGG
0.0	03-nov-1991	LM18	ENDRNK	MO	5.30e-01	UGG
4.0	03-nov-1991	LM18	ENDRNK	MD	5.30e-01	UGG
10.0	03-nov-1991	LH18	ENDRNK	NO NO	5.30e-01	UGG
0.0	03-nov-1991	LM18	ESFS04	NO	6.20e-01	UGG
4.0	03-nov-1991	LM18	ESFS04	NO	6.20e-01	UGG
10.ú	03-nov-1991	LM18	ESFSO4	NO	6.20e-01	UGG

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			30-3003	(001011	Med)	
SAMPLE	SAMPLE	TEST				
DEPTH (ft) DATE	METHOD	COMP-3UNO	BOOL	CONCENTRATION	UNITS
*****	•••••		•••••	••••	**********	••••
0.0	03-nov-1991	LN18	FANT	LT	6.80e-02	UGG
4.0	03-nov-1991	LM18	FANT	LT	6.80e-02	UGG
10.0	03-nov-1991	LH18	FANT	LT	6.80e-02	UGG
0.0	03-nov-1991	LM18	FLRENE	LT	3.30e-02	UGG
4.0	03-nov-1991	LH18	FLRENE	LT	3.30e-02	UGG
10.0	03-nov-1991	LH18	FLRENE	LT	3.30e-02	UGG
0.0	03-nov-1991	LH18	GCLDAN	MO	3.30e-01	UCG
4.0	03-nov-1991	LN18	GCLDAN	NO	3.30e-01	UCG
10.0	03-nov-1991	LH18	GCLDAN	MD	3.30e-01	ucc
0.0	03-nov-1991	LH18	HCBO	LT	2.304-01	UCE
4.0	03-nov-1991	LH18	HCBO	LT	2.30e-01	UCE
10.0	03-nov-1991	LH18	HCBO	LT	2.30e-01	UCG
0.0	03-nov-1991	LH18	MPCL	HD	1.30e-01	UCG
4.0	03-nov-1991	LH18	HPCL	NO	1.3001	UGG
10.0	03-nov-1991	LH18	HPCL	MD	1.30e-01	UGG
0.0	03-nov-1991	'.X18	HPCLE	NO	3.30e-01	UGG
4.0	03-nov-1991	LM18	HPCLE	MD	3.30e-01	UGG
10.0	03-nov-1991	LH18	HPCLE	NO	3.30e-01	UGG
0.0	03-nov-1991	UI18	HXCHETA		2.10e+00	UGG
0.0	03-nov-1991	LH18	ICDPYR	LT	2.90e-01	UGG
4.0	03-nov-1991	LH18	ICOPYR	ĻŢ	2.90e-01	VGG
10.0	03-nov-1991	LH18	ICOPYR	LT	2.90e-01	UCC
0.0	03-nov-1991	LM18	ISOPHR	LT	3.30e-02	UGG
4.0	03-nov-1991	LH18	ISOPHR	LT	3.30e-02	UGG
10.0	03-nov-1991	LH18	ISOPHR	LT	3.30e-02	VGS
0.0	03-nov-1991	LH18	LIN	MD	2.70e-01	UCE
4.0	03-nov-1991	LH18	LIN	NO	2.70e-01	UGG
10.0	03-nov-1991	LH18	LIN	MD	2.70e-01	UGG
0.0	03-nov-1991	LH18	MEXCLE	NO	3.304-01	UCG
4.0	03-nov-1991	LH18	MEXCLR	NO	3.30e-01	UGG
10.0	03-nov-1991	LH18	MEXCLR	MO	3.30e-01	UGG
0.0	03-nov-1991	LH18	KAP	LT	3.70e-02	UCC
4.0	03-nov-1991	LH18	NAP	LT	3.70e-02	UCG
10.0	03-nov-1991	LH18	NAP	LT	3.70e-02	VCC
0.0	03-nov-1991	LH18	NB	LT	4.50a-02	UGG
4.0	03-nov-1991	LH18	MS	LT	4.50e-02	UGG
19.0	03-nov-1991	LM18	NB	LT	4.50e-02	UGG
0.0	03-nov-1991	LH18	NNOMEA	MO	1.40e-01	UGG
4.0	03-nov-1991	LH18	NNOMEA	NC)	1.40e-01	UGG
10.0	03-nov-1991	LH18	NNOMEA	ж	1.40e-01	UCC
0.0	03-nov-1991	LH18	HONPA	LT	2.00e-01	UGG
4.0	03-nov-1991	LN18	NMONPA	LT	2.00-01	UGG
10.0	03-nov-1991	LM18	NNDNPA	LT	2.00e-01	UGG
0.0	03-nov-1991	LM18	NNOPA	LT	1.90e-01	UGG
4.0	G3-nov-1991	LH18	HNOPA	LT	1.90e-01	UGG
10.0	03-nov-1991	LM18	HNDPA	LT	1.904-01	UGG
0.0	03-nov-1991	LH18	PC2016	MO	1.40+00	UGG
4.0	03-nov-1991	LH18	PC8016	MO	1.40=-00	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

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SAMPLE	SAMPLE	TEST				
DEPTH (ft	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••	********	•••••			**********	
10.0	03-nov-1991	LM18	PCB016	MD	1.40e+00	UGG
0.0	03-nov-1991	LM18	PCB221	MD	1.40 e+ 00	UGG
4.0	03-nov-1991	LH18	PC8221	MD	1.40e+00	UGG
10.0	03-nov-1991	LM18	PC8221	ND	1.40e+00	UGG
0.0	03-nov-1991	LM18	PCB232	MD	1.40 e+ 00	UGG
4.0	03-nov-1991	LH18	PCB232	NO	1.40++00	UGG
10.0	03-nov-1991	LH18	PC8232	NO	1.40 e+ 00	UGG
0.0	03-nov-1991	LM18	PC8242	MD	1.40 e+ 00	UGG
4.0	03-nov-1991	LM18	PCB242	NO	1.40e+00	UGG
10.0	03-nov-1991	LH18	PC8242	ND	1.40 e+ 00	UGG
0.0	03-nov-1991	LM18	PC8248	NO	2.00e+00	UGG
4.0	03-nov-1991	LH18	PC8248	HD	2.00e+00	UGG
10.0	03-nov-1991	LM18	PC8248	MD	2.00e+00	UGG
0.0	03-nov-1991	LM18	PC8254	MD	2.30e+00	UGG
4.0	03-nov-1991	LM18	PC8254	MD	2.30e+00	UGG
10.0	03-nov-1991	LM18	PCB254	NO	2.30e+00	UGG
0.0	03-nov-1991	LM18	PCB260	NO	2.60 c+ 00	UGG
4.0	03-nov-1991	LM18	PCB260	MD	2.60e+00	UGG
10.0	03-nov-1991	LM18	PC8260	MD	2.60e+00	UGG
0.0	03-nov-1991	LH18	PCP	LT	1.30e+00	UGG
4.0	03-nov-1991	LH18	PCP	LT	1.30e+00	UGG
10.0	03-nov-1991	LM18	PCP	LT	1.30e+00	UGG
0.0	03-nov-1991	LM18	PHANTR	LT	3.30e-02	UGG
4.0	03-nov-1991	LH18	PHANTR	LT	3.30e-02	UGG
10.0	03-nov-1991	LH18	PHANTR	LT	3.30e-02	UGG
0.0	03-nov-1991	LH18	PHENOL	LT	1.10e-01	UGG
4.0	03-nov-1991	LH18	PHENOL	LT	1.10e-01	UGG
10.0	03-nov-1991	LH18	PHENOL	LT	1.10e-01	UGG
0.0	03-nov-1991	LM18	P9000	MD	2.70e-01	UCG
4.0	03-nov-1991	LH18	PPOOO	MO	2.70e-01	UGG
10.0	03-nov-1991	LM18	PPOOO	MD	2.70e-01	UGG
0.0	03-nov-1991	LM18	PP00E	NO.	3.10e-01	UCG
4.0	03-nov-1991	LM18	PPOOE	MD	3.10e-01	UGG
10.0	03-nov-1991	LH18	PPDGE	MD	3.10 e -01	UGG
0.0	03-nov-1991	LH18	PPDOT	NO	3.10e-01	UGG
4.0	03-nov-1991	LM18	PPDOT	MD	3.10e-01	UGG
10.0	03-nov-1991	LM18	PPOOT	KD	3.10e-01	UGG
0.0	03-nov-1991	LH18	PYR	LT	3.30e-02	UGG
4.0	03-nov-1991	LH18	PYR	LT	3.30e-02	UGG
10.0	03-nov-1991	LH18	PYR	LT	3.30e-02	UGG
0.0	03-nov-1991	LH18	TXPHEN	MD	2.60++00	UGG
4.6	û3-nov-1991	LH18	TXPHEN	MD	2.60++00	UGG
10.0	03-nav-1991	UH18	TXPHEN	MO	2.60++00	UGG
0.0	03-nov-1991	LH18	UNKS17		8.39e-01	UGG
0.0	03-nov-1991	LM18	UNKSSS		4.20e-01	UGG
4.0	03-nov-1991	LH18	UNK594 *		2.10e+00	UGG
0.0	03-nov-1991	LM18	UNKS95		1.05e+00	UGG
10.0	03-nov-1991	LM18	UNK595 *		4.31e+00	UGG

^{*}Trinitrobenzene

⁻Trinitrotoluene

Analytical Results for Chemical Soit From: 31-oct-91 To: 19-mer-92

Site: BORE \$048005 (continued)

SAIPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
*****	*******	*****	••••••	••••	**********	*****
0.0	03-nov-1991	LH19	1117CE	LT	4.40e-03	UGG
4.0	03-nov-1991	LH19	111TCE	LT	4.40e-03	UGG
10.0	03-nov-1991	LH19	111TCE	LT	4.40e-03	UGG
0.0	03-nov-1991	LH19	112TCE	LT	5.404-03	UGG
4.0	03-nov-1991	LN19	112TCE	LT	5.40e-03	UGG
10.0	03-nov-1991	UH19	112TCE	LT	5.40e-03	UGG
0.0	03-nov-1991	LH19	11DCE	LT	3.90e-03	UGG
4.0	03-nov-1991	LM19	11DCE	LT	3.90e-03	UGG
10.0	03-nov-1991	LH19	110CE	LT	3.90e-03	UGG
0.0	03-nov-1991	LH19	110CLE	LT	2.3Ce-03	UGG
4.0	03-nov-1991	LH19	11DCLE	LT	2.30e-03	UGG
10.0	03-nov-1991	LH19	11DCLE	LT	2.30e-03	UGG
0.0	03-nov-1991	LH19	120CE	LT	3.00e-03	UGG
4.0	03-nov-1991	LM19 .	120CE	LT	3.00e-03	UGG
10.0	03-nov-1991	UI19	120CE	LT	3.00e-03	UGG
0.0	03-nov-1991	LH19	12DCLF	LT.	1.70e-03	UGG
4.0	03-nov-1991	LH19	120CLE	LT	1.70e-03	UGG
10.0	03-nov-1991	LH19	120CLE	LT	1.70e-03	UGG
9.0	03-nov-1991	LH19	120CLP	LT	2.90e-03	UGG
4.0	03-nov-1991	LH19	120CLP	LT	2.90e-03	UGG
10.0	03-nov-1991	LH19	120CLP	LT	2.90e-03	UGG
0.0	03-nov-1991	LH19	ZCLEVE	MD	1.00e-02	UGG
4.0	03-nov-1991	LN19	2CLEVE	MD	1.00e-02	UGG
10.0	03-nov-1991	LH19	SCLEVE	MO	1.00e-02	UGG
0.0	03-nov-1991	LH19	ACET	L7	1.70e-02	UGG
4.0	03-nov-1991	LH19	ACET	LT	1.70e-02	UGG
10.0	03-nov-1991	LH19	ACET	LT	1.7002	UGG
0.0	03-nov-1991	LN19	ACROLN	MO	1,00e-01	UGG
4.0	03-nov-1991	LH19	ACROLN	ND	1.00e-01	UGG
10.0	03-nov-1991	LN19	ACROLN	MD	1.00e-01	UGG
0.0	03-nov-1991	UH19	ACRYLO	ND	1,00e-01	nee
4.0	03-nov-1991	LM19	ACRYLO	MO	1.00e-01	UGG
10.0	03-nov-1991	LH19	ACRYLO	MO	1.00e-01	UGG
0.0	03-nov-1991	LH19	BRDCLM	LT	2.90e-03	UGG
4.0	03-nov-1991	LH19	BRDCLM	LT.	2.90e-03	UGG
10.0	03-nov-1991	LH19	BROCLM	L.T	2.90e-03	UGG
0.0	03-nov-1991	LH19	C130CP	LT	3.20e-03	UGG
4.0	03-nov-1991	LH19	C130CP	LT	3.29-03	ugg
10.0	03-nov-1991	LN19	C130CP	LT	3.20e-03	UGG
0.0	03-nov-1991	LH19	CZAVE	LT	3.20e-03	UGG
4.0	03-nov-1991	LH19	C2AVE	LT	3,20e-03	ניכב
10.0	03-nov-1991	LM19	CZAVE	LT	3.20e-03	UGG
0.0	03-nov-1991	LH19	CZH3CL	LT	6.20e-03	UGG
4.0	03-nov-1991	LH19	C2H3CL	LT	6.20e-03	UGG
10.0	03-nov-1991	LH19	C2H3CL	LT	6.204-03	UGG
0.0	03-nov-1991	LM19	CZHSCL	LT	1.200-02	UGG
4.0	03-nov-1991	LM19	CZH5CL	LT	1.20e-02	UGG
10.0	03-nov-1991	LH19	CZH5CL	LT	1.200-02	UGG
						

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAPLE	SAMPLE	TEST				
DEPTH (f		METHOD	COMPOUND	BOOL	CONCENTRATION	STIKU
•••••	.,	*****	*******		***********	•••••
0.0	03-nov-1991	LH19	CÓHÓ	LT	1.50e-03	UGG
4.0	03-nov-1991	LH19	COHO	LT	1.504-03	UGG
10.0	03-nov-1991	LH19	CÓHÓ	LT	1.50e-03	UGG
0.0	03-nov-1991	LH19	CCL3F	L7	5.90e-03	UGG
4.0	03-nov-1991	LM19	CCL3F	LT	5.90e-03	UGG
10.0	03-nov-1991	LH19	CCL3F	LT	5.90e-03	UGG
0.0	03-nov-1991	LH19	CCL4	LT	7.00e-03	UGG
4.0	03-nov-1991	LM19	CCL4	LT	7.00e-03	UGG
10.0	03-nov-1991	LM19	CCL4	LT	7.00e-03	UGG
0.0	03-nov-1991	UN19	CH2CL2	LT	1.20e-02	UGG
4.0	03-nov-1991	LM19		-		
10.0	03-nov-1991	LM19	CH2CL2	LT	1.20e-02	UGG
0.0	03-nov-1991		CH2CL2	LT	1.20e-02	UGG
	03-nov-1991	LH19	CH3BR	LT	5.70e-03	UGG
4.0	03-nov-1991	LM19	CH33R	LT	5.70e-03	UGG
10.0 0.0		LM19	CH3BR	LT	5.70e-03	UGG
	03-nov-1991	LH19	CH3CL	LT	8.80e-03	UGG
4.0	03-nov-1991	LH19	CH3CL	LT	8.80e-03	UGG
10.0	03-nov-1991	LM19	CH3CT	LT	8.80e-03	UGG
0.0	03-nov-1991	LN19	CHBR3	LT	6.90e-03	UGG
4.0	03-nov-1991	LH19	CHBR3	LT	6,90e-03	UGG
10.0	03-nov-1991	LM19 ·	CHBR3	LT	6.90e-03	UGG
0.0	03-nov-1991	LH19	CHCF3	LT	* 8.70e-04	UGG
4.0	03-nov-1991	LM19	CHCL3	LT	8.70e-04	UGG
10.0	03-nov-1991	LH19	CHCL3	LT	8.70e-04	UGG
0.0	03-nov-1991	LH19	CL282	NO	1.00e-01	UGG
4.0	03-nov-1991	LH19	CL2BZ	MD	1.00e-01	UGG
10.0	03-nov-1991	LM19	CL28Z	MD	1.00e-01	UGG
0.0	03-nov-1991	LM19	CLC6H5	LT	8.60e-04	UGG
4.0	03-nov-1991	LM19	CLC6H5	LT	8.60e-04	UGG
10.0	03-nev-1991	LH19	CLC6H5	LT	8.60e-04	UGG
0.0	03-nov-1991	LH19	CS2	LT	4.40e-03	UGG
4.0	03- nov- 1991	LM19	C2S	LT	4.40e-03	UGG
10.0	03-nov-1991	LH19	CS2	LT	4.40e-03	UGG
0.0	03-nov-1991	LH19	DBRCLM	LT	3.10e-03	UGG
4.0	03-nov-1991	LH19	DERCLM	LT	3.10e-03	UGG
10.0	03-nov-1991	LM19	DBRCLM	LT	3.10e-03	UGG
0.0	03-nov-1991	- UH19	ETC6H5	LT	1.70e-03	UGG
4.0	03-nov-1991	U119	ETC6H5	LT	1.70e-03	UGG
10,0	03-nov-1991	UI19	ETC6H5	LT	1.70e-03	UGG
0.0	03-nov-1991	UH19	MEC6H5	LT	7.80e-04	UGG
4.0	03-nov-1991	LM19	MEC6H5	LT	7.80e-04	UGG
10.0	03-nov-1991	LH19	MEC6H5	LT	7.80e-04	UGG
0.0	03-nov-1991	LM19	MEK	LT	7.00e-02	UGG
4.0	03-nov-1991	LM19	MEK	LT	7.00e-02	UGG
10.0	03-nov-1991	LH19	MEK	LT	7.00e-02	UGG
0.0	03-nov-1991	LM19	MISK	LT	2.70e-02	UGG
4.0	03- nov- 1991	LX19	MIBK	LT	2.70e-02	UGG
10.0	03-nov-1991	LH19	MISK	LT	2.70e-02	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

SAMPLE	SAMPLE	TEST				
DEPTH (ft		METHOD	COMPOUND	ROOF	CONCENTRATION	UNITS
•••••	•••••	•••••	******	••••	***********	*****
0.0	03-nov-1991	LH19	MNSK	LT	3.20e-02	UGG
4.0	03-nov-1991	LH19	MNEK	LT	3.20e-02	מסט
10.0	03-nov-1991	LH19	MHSK	LT	3.20e-02	UGG
0.0	03-nov-1991	LH19	STYR	LT	2.60e-03	UGG
4.0	03-nov-1991	LM19	STYR	LT	2.60e-03	UGG
10.0	03-nov-1991	LM19	STYR	LT	2.60e-03	UGG
0.0	03-nov-1991	LM19	T130CP	LT	2.80e-03	UGG
4.0	03-nov-1991	LM19	T130CP	LT.	2.80e-03	UGG
10.0	03-nov-1991	LH19	T130CP	LT	2.80e-03	UGG
3.0	03-nov-1991	LH19	TCLEA	LT	2.40e-03	UGG
4.0	03-nov-1991	LM19	TCLEA	LT	2.40e-03	UGG
10.0	03-nov-1991	LM19	TCLEA	LT	2.46e-03	UGG
0.0	03-nov-1991	LM19	TCLEE	17	8.10e-04	
4.0	03-nov-1991	LH19	TCLEE	LT	8.10e-04	UGG
10.0	03-nov-1991	LH19	TCLEE	LT	8.10e-04	UGG
0.0	03-nov-1991	LM19	TROLE	_		UGG
4.0	03-nov-1991	LM19	TRCLE	LT LT	2.80e-03	UGG
10.0	03-nov-1991	LM19			2.8003	UGG
0.0	03-nov-1991	LM19	TRCLE	LT	2.80e-03	UGG
4.0	03-nov-1991		XYLEN	LT	1.50e-03	UGG
10.0	03-nov-1991	LH19	XYLEN	LT	1.50a-03	UGG
10.0	03-1004-1391	LM19	XYLEN	LT	1.50e-03	UGG
0.0	03-nov-1991	LW12	135TNB		3.5500	
50.0	03-nov-1991	LW12	1351NB		2.51e+06	UGG
2.0	03-nov-1991	LW12	1351NB		8.00+00	UGG
4.0	03-nov-1991	LW12	135TMB		8.59e+00	UGG
6.0	03-nov-1991	LW12	135TNB		9.88e+00 1.29e+01	UGG
45.0	03-nov-1991	LU12	135THB			UGG
30.0	03-nov-1991	LW12	135TNB		1.48e+01 2.40e+01	UGG UGG
30.0	03-nov-1991	LW12	135TNB		2.40 0- 01	UGG
8.0	03-nov-1991	LW12	135TNB		2.90+01	UGG
40.0	03-nov-1991	LW12	135THB		3.00e+01	
35.0	03-nov-1991	LW12	135TH8		3.30e+01	UGG
10.0	03-nov-1991	LW12	135THB		3.40e+01	UGG
25.0	03-nov-1991	LW12	135TMB		3.40 0+ 01	UGG
20.0	03-nov-1991	LW12	135THB		3.60e+01	UGG
15.0	03-nov-1991	LW12	135THB		4.00e+01	UGG
35.0	03-nov-1991	LW12	130 NB		6.28a-01	UGG
20.0	03-nov-1991	LW12	13048		7.47e-01	UGG UGG
0.0	03-nov-1991	LW12	130NB	LT	4.96e-01	UGG
2.0	03-nov-1991	LW12	130NB	LT	4.96e-01	UGG
4.0	03-nov-1991	LW12	130NB	LT	4.96e-01	UGG
6.0	03-nov-1991	LW12	130NB	LT	4.96e-01	UGG
8.0	03-nov-1991	LW12	130NB	LT	4.96e-01	
10.0	03-nov-1991	LW12	130MB	LT	4.96e-01	UGG
15.0	03-nov-1991	LW12	13CHB	LT	4.96e-01	UGG
25.0	03-nov-1991	LW12	130NB	_		UGG
30.0	03-nov-1991	LW12	130MB	LT	4.96e-01	UGG
20.0	93-107-1441	FRIC	ISUNS	LT	4.9 6e -01	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

DEPTH (Ft) DATE METMOD COMPOUND BOOL CONCENTRATION UNITS	# A 1404 #	64401 F	7544				
30.0 03-nov-1991 Lu12 130N8 LT 4.96e-01 UGG 45.0 03-nov-1991 Lu12 130N8 LT 4.96e-01 UGG 45.0 03-nov-1991 Lu12 130N8 LT 4.96e-01 UGG 50.0 03-nov-1991 Lu12 130N8 LT 4.96e-01 UGG 8.0 03-nov-1991 Lu12 246TNT 1.47e+00 UGG 8.0 03-nov-1991 Lu12 246TNT 3.02e+00 UGG 30.0 03-nov-1991 Lu12 246TNT 5.63e+00 UGG 30.0 03-nov-1991 Lu12 246TNT 7.05e+00 UGG 30.0 03-nov-1991 Lu12 246TNT 9.88e+00 UGG 30.0 03-nov-1991 Lu12 246TNT 9.88e+00 UGG 50.0 03-nov-1991 Lu12 246TNT 1.15e+01 UGG 50.0 03-nov-1991 Lu12 246TNT 1.29e+01 UGG 50.0 03-nov-1991 Lu12 246TNT 1.50e+01 UGG 60.0 03-nov-1991 Lu12 246TNT LT 4.56e-01 UGG 60.0 03-nov-1991 Lu12 246TNT LT 4.24e-01 UGG 60.0 03-nov-1991 Lu12 240NT LT 5.24e-01 UGG 60.0 03	SAMPLE	SAMPLE	TEST		2001		
30.0 03-nov-1991 Lu12 130NB LT 4.96e-01 UGG 40.0 03-nov-1991 Lu12 130NB LT 4.96e-01 UGG 45.0 03-nov-1991 Lu12 130NB LT 4.96e-01 UGG 50.0 03-nov-1991 Lu12 130NB LT 4.96e-01 UGG 50.0 03-nov-1991 Lu12 130NB LT 4.96e-01 UGG 8.0 03-nov-1991 Lu12 246TNT 1.47e+00 UGG 8.0 03-nov-1991 Lu12 246TNT 3.02e+00 UGG 30.0 03-nov-1991 Lu12 246TNT 3.62e+00 UGG 30.0 03-nov-1991 Lu12 246TNT 5.63e+00 UGG 30.0 03-nov-1991 Lu12 246TNT 7.05e+00 UGG 30.0 03-nov-1991 Lu12 246TNT 7.05e+00 UGG 30.0 03-nov-1991 Lu12 246TNT 8.84e+00 UGG 20.0 03-nov-1991 Lu12 246TNT 9.88e+00 UGG 20.0 03-nov-1991 Lu12 246TNT 1.01e+01 UGG 20.0 03-nov-1991 Lu12 246TNT 1.01e+01 UGG 20.0 03-nov-1991 Lu12 246TNT 1.5e+01 UGG 35.0 03-nov-1991 Lu12 246TNT 1.5e+01 UGG 45.0 03-nov-1991 Lu12 246TNT 1.29e+01 UGG 45.0 03-nov-1991 Lu12 246TNT 1.50e+01 UGG 45.0 03-nov-1991 Lu12 246TNT 1.50e+01 UGG 45.0 03-nov-1991 Lu12 246TNT 1.50e+01 UGG 46.0 03-nov-1991 Lu12 246TNT 1.4.56e-01 UGG 6.0 03-nov-1991 Lu12 246TNT UT 4.56e-01 UGG 6.0 03-nov-1991 Lu12 246TNT UT 4.56e-01 UGG 6.0 03-nov-1991 Lu12 246TNT UT 4.26e-01 UGG 6.0 03-nov-1991 Lu12 240NT UT 4.26e-01 U	•) DATE		COMPOUND		CONCENTRATION	
40.0 03-nov-1991 LW12 130NB LT 4.96e-01 UGG 45.0 03-nov-1991 LW12 130NB LT 4.96e-01 UGG 2.0 03-nov-1991 LW12 246TNT 1.47e+00 UGG 2.0 03-nov-1991 LW12 246TNT 3.02e+00 UGG 0.0 03-nov-1991 LW12 246TNT 3.62e+00 UGG 30.0 03-nov-1991 LW12 246TNT 3.62e+00 UGG 30.0 03-nov-1991 LW12 246TNT 7.05e+00 UGG 30.0 03-nov-1991 LW12 246TNT 7.05e+00 UGG 30.0 03-nov-1991 LW12 246TNT 8.84e+00 UGG 20.0 03-nov-1991 LW12 246TNT 8.84e+00 UGG 20.0 03-nov-1991 LW12 246TNT 1.01e+01 UGG 30.0 03-nov-1991 LW12 246TNT 1.01e+01 UGG 35.0 03-nov-1991 LW12 246TNT 1.5e+01 UGG 35.0 03-nov-1991 LW12 246TNT 1.5e+01 UGG 40.0 03-nov-1991 LW12 246TNT 1.5e+01 UGG 25.0 03-nov-1991 LW12 246TNT 1.5e+01 UGG 40.0 03-nov-1991 LW12 246TNT LT 4.56e-01 UGG 40.0 03-nov-1991 LW12 246TNT LT 4.56e-01 UGG 40.0 03-nov-1991 LW12 246TNT LT 4.56e-01 UGG 40.0 03-nov-1991 LW12 240NT UT 4.56e-01 UGG 40.0 03-nov-1991 LW12 240NT UT 4.56e-01 UGG 40.0 03-nov-1991 LW12 240NT UT 4.6e-01 UGG 40.0 03-nov-1991 LW12 240NT UT 4.2e-01 UGG 40.0 03-nov-1991 LW12 240NT UT 5.2e-01 UGG 40.0 03-n		4004		470.00			
45.0 03-nov-1991 LW12 130NB LT 4.96e-01 UGG 2.0 03-nov-1991 LW12 130NB LT 4.96e-01 UGG 2.0 03-nov-1991 LW12 246TNT 1.47e+00 UGG 8.0 03-nov-1991 LW12 246TNT 3.02e+00 UGG 0.0 03-nov-1991 LW12 246TNT 5.63e+00 UGG 30.0 03-nov-1991 LW12 246TNT 5.63e+00 UGG 10.0 03-nov-1991 LW12 246TNT 7.05e+00 UGG 10.0 03-nov-1991 LW12 246TNT 7.05e+00 UGG 10.0 03-nov-1991 LW12 246TNT 9.88e+00 UGG 10.0 03-nov-1991 LW12 246TNT 1.01e+01 UGG 10.0 03-nov-1991 LW12 246TNT 1.01e+01 UGG 10.0 03-nov-1991 LW12 246TNT 1.01e+01 UGG 35.0 03-nov-1991 LW12 246TNT 1.29e+01 UGG 15.0 03-nov-1991 LW12 246TNT 1.29e+01 UGG 45.0 03-nov-1991 LW12 246TNT 1.29e+01 UGG 45.0 03-nov-1991 LW12 246TNT 1.50e+01 UGG 6.0 03-nov-1991 LW12 246TNT 1.50e+01 UGG 8.0 03-nov-1991 LW12 246TNT LT 4.56e-01 UGG 8.0 03-nov-1991 LW12 240NT 1 4.56e-01 UGG 8.0 03-nov-1991 LW12 240NT 1 4.56e-01 UGG 8.0 03-nov-1991 LW12 240NT 1 4.56e-01 UGG 10.0 03-nov-1991 LW12 240NT 1 4.24e-01 UGG 10.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 10.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 2.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 2.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 2.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 3.0 03-nov-1991 LW12 240NT LT 5.24e-01 UGG 3.0					_		
\$0.0 03-nov-1991 LW12 130NB LT 4.96a-01 UGG 2.0 03-nov-1991 LW12 246TNT 1.47e+00 UGG 8.0 03-nov-1991 LW12 246TNT 3.02e+00 UGG 0.0 03-nov-1991 LW12 246TNT 5.63e+00 UGG 30.0 03-nov-1991 LW12 246TNT 7.05e+00 UGG 10.0 03-nov-1991 LW12 246TNT 7.05e+00 UGG 10.0 03-nov-1991 LW12 246TNT 7.05e+00 UGG 10.0 03-nov-1991 LW12 246TNT 9.88e+00 UGG 20.0 03-nov-1991 LW12 246TNT 9.88e+00 UGG 20.0 03-nov-1991 LW12 246TNT 1.01e+01 UGG 35.0 03-nov-1991 LW12 246TNT 1.01e+01 UGG 35.0 03-nov-1991 LW12 246TNT 1.5e+01 UGG 15.0 03-nov-1991 LW12 246TNT 1.5e+01 UGG 15.0 03-nov-1991 LW12 246TNT 1.29e+01 UGG 40.0 03-nov-1991 LW12 246TNT 1.29e+01 UGG 45.0 03-nov-1991 LW12 246TNT 1.50e+01 UGG 45.0 03-nov-1991 LW12 246TNT 1.50e+01 UGG 46.0 03-nov-1991 LW12 246TNT 1.50e+01 UGG 46.0 03-nov-1991 LW12 246TNT LT 4.56e-01 UGG 6.0 03-nov-1991 LW12 246TNT LT 4.56e-01 UGG 6.0 03-nov-1991 LW12 240NT LT 4.56e-01 UGG 6.0 03-nov-1991 LW12 240NT UT 4.56e-01 UGG 15.0 03-nov-1991 LW12 240NT UT 4.56e-01 UGG 10.0 03-nov-1991 LW12 240NT UT 4.46e+00 UGG 10.0 03-nov-1991 LW12 240NT UT 4.24e-01 UGG 0.0 03-nov-1991 LW12 240NT UT 5.24e-01 U							
2.0 03-nov-1991 LW12 246TMT 3.02e+00 UGG 0.0 03-nov-1991 LW12 246TMT 3.02e+00 UGG 30.0 03-nov-1991 LW12 246TMT 5.63e+00 UGG 30.0 03-nov-1991 LW12 246TMT 5.63e+00 UGG 30.0 03-nov-1991 LW12 246TMT 7.05e+00 UGG 30.0 03-nov-1991 LW12 246TMT 8.84e+00 UGG 20.0 03-nov-1991 LW12 246TMT 9.88e+00 UGG 50.0 03-nov-1991 LW12 246TMT 1.01e+01 UGG 50.0 03-nov-1991 LW12 246TMT 1.5e+01 UGG 55.0 03-nov-1991 LW12 246TMT 1.5e+01 UGG 55.0 03-nov-1991 LW12 246TMT 1.5e+01 UGG 56.0 03-nov-1991 LW12 246TMT 1.5e+01 UGG 57.0 03-nov-1991 LW12 246TMT 1.5e+01 UGG 58.0 03-nov-1991 LW12 246TMT 1.5e+01 UGG 59.0 03-nov-1991 LW12 240TMT 1.							
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10.0 03-nov-1991 LW12 Z4DNT	30.0	03-nov-1991	LW12	24DNT		2.40e+00	UGG
0.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 2.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 4.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 6.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 20.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 25.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 30.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 30.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 35.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 40.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 45.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 40.0 03-nov-1991 L912 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 L912 240NT LT 5.24e-01 UGG 40.0 03-nov-1991 L912 240NT LT 5.24e-01 UGG 40.0 03-nov-1991 L912 240NT LT 5.24e-01 UGG 6.0 03-nov-1991 L912 240NT LT 5.24e-01 UGG	15.0	03-nov-1991	LW12	24DNT		4.14e+00	UGG
2.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 6.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 6.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 20.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 25.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 30.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 30.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 35.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 40.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 40.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 40.0 03-nov-1991 LW12 24DNT LT 5.24e-01 UGG 40.0 03-nov-1991 LW12 24DNT S.56e+00 UGG 40.0 03-nov-1991 LW12 24DNT S.56e+00 UGG 40.0 03-nov-1991 LW12 24DNT S.56e+00 UGG 40.0 03-nov-1991 LW12 24DNT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 24DNT LT 5.24e-01 UGG	10.0	03-nov-1991	LW12	24DNT		4.45e+00	UGG
- 4.0 03-nnv-1991 LW12 24DNT LT 4.24e-01 UGG 6.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 20.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 25.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 30.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 35.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 35.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 40.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 24DNT LT 5.24e-01 UGG 40.0 03-nov-1991 LW12 24DNT LT 5.56e+00 UGG 40.0 03-nov-1991 LW12 24DNT S.56e+00 UGG 60.0 03-nov-1991 LW12 24DNT LT 5.24e-01 UGG 60.0 03-nov-1991 LW12 24D	0.0	03-nov-1991	LW12	24DNT	LT	4.24e-01	UGG
6.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 20.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 25.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 30.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 35.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 40.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 24DNT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 24DNT LT 5.24e-01 UGG 40.0 03-nov-1991 LW12 24DNT 5.56e+00 UGG 40.0 03-nov-1991 LW12 24DNT LT 5.24e-01 UGG 2.0 03-nov-1991 LW12 24DNT LT 5.24e-01 UGG 4.0 03-nov-1991 LW12 24DNT LT 5.24e-01 UGG 4.0 03-nov-1991 LW12 24DNT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 24DNT LT 5.24e-01 UGG	2.0	03-nov-1991	LW12	24DNT	LT	4.24e-01	UGG
20.0 03-nov-1991 LH12 240NT LT 4.24e-01 UGG 25.0 03-nov-1991 LH12 240NT LT 4.24e-01 UGG 30.0 03-nov-1991 LH12 240NT LT 4.24e-01 UGG 35.0 03-nov-1991 LH12 240NT LT 4.24e-01 UGG 40.0 03-nov-1991 LH12 240NT LT 4.24e-01 UGG 45.0 03-nov-1991 LH12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LH12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LH12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LH12 240NT LT 4.24e-01 UGG 45.0 03-nov-1991 LH12 240NT LT 4.24e-01 UGG 45.0 03-nov-1991 LH12 260NT 3.72e-01 UGG 40.0 03-nov-1991 LH12 260NT 2.45e+00 UGG 40.0 03-nov-1991 LH12 260NT 5.56e+00 UGG 35.0 03-nov-1991 LH12 260NT LT 5.24e-01 UGG 0.0 03-nov-1991 LH12 260NT LT 5.24e-01 UGG 2.0 03-nov-1991 LH12 260NT LT 5.24e-01 UGG 4.0 03-nov-1991 LH12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LH12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LH12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LH12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LH12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LH12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LH12 260NT LT 5.24e-01 UGG	- 4.0	03-nnv-1991	LW12	24DHT	LT	4.24e-01	UGG
25.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 30.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 35.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 40.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 260NT 3.72e-01 UGG 45.0 03-nov-1991 LW12 260NT 2.45e+00 UGG 40.0 03-nov-1991 LW12 260NT 3.81e+60 UGG 35.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 0.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 2.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 4.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG	6.0	03-nov-1991	LW12	24DNT	LT	4.244-01	UGG
30.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 35.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 40.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 260NT B.72e-01 UGG 45.0 03-nov-1991 LW12 260NT 2.45e+00 UGG 40.0 03-nov-1991 LW12 260NT 3.81e+00 UGG 35.0 03-nov-1991 LW12 260NT 5.56e+00 UGG 0.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 2.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 4.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG	20.0	03-nov-1991	LW12	240HT	LT	4.24e-01	UGG
35.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 40.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 260NT 3.72e-01 UGG 45.0 03-nov-1991 LW12 260NT 2.45e-00 UGG 40.0 03-nov-1991 LW12 260NT 3.81e+00 UGG 35.0 03-nov-1991 LW12 260NT 5.56e+00 UGG 0.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 2.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 4.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 8.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG	25.0	03-nov-1991	LW1Z	24DNT	LT	4.24-01	UGG
40.0 03-nov-1991 L912 245NT LT 4.24e-01 UGG 45.0 03-nov-1991 L912 245NT LT 4.24e-01 UGG 50.0 03-nov-1991 L912 245NT LT 4.24e-01 UGG 50.0 03-nov-1991 L912 245NT LT 4.24e-01 UGG 50.0 03-nov-1991 L912 245NT 8.72e-01 UGG 45.0 03-nov-1991 L912 245NT 2.45e-00 UGG 40.0 03-nov-1991 L912 245NT 3.81e+00 UGG 35.0 03-nov-1991 L912 245NT 5.54e-01 UGG 0.0 03-nov-1991 L912 245NT LT 5.24e-01 UGG 2.0 03-nov-1991 L912 245NT LT 5.24e-01 UGG 4.0 03-nov-1991 L912 245NT LT 5.24e-01 UGG 6.0 03-nov-1991 L912 245NT LT 5.24e-01 UGG 10.0 03-nov-1991 L912 245NT LT 5.24e-01 UGG 10.0 03-nov-1991 L912 245NT LT 5.24e-01 UGG 10.0 03-nov-1991 L912 245NT LT 5.24e-01 UGG 15.0 03-nov-1991 L912 245NT LT 5.24e-01 UGG 25.0 03-nov-1991 L912 245NT LT 5.24e-01 UGG 25.0 03-nov-1991 L912 245NT LT 5.24e-01 UGG	30.0	03-nov-1991	LW12	24DNT	LT	4.24e-01	UGG
45.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 260NT LT 4.24e-01 UGG 45.0 03-nov-1991 LW12 260NT 2.45e-00 UGG 40.0 03-nov-1991 LW12 260NT 3.81e-00 UGG 35.0 03-nov-1991 LW12 260NT 5.56e-00 UGG 0.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 2.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 4.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 8.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG	35.0	03-nov-1991	LW12	240NT	LT	4.24e-01	UGG
50.0 03-nov-1991 LW12 240NT LT 4.24e-01 UGG 50.0 03-nov-1991 LW12 260NT 8.72e-01 UGG 45.0 03-nov-1991 LW12 260NT 2.45e+00 UGG 40.0 03-nov-1991 LW12 260NT 3.81e+00 UGG 35.0 03-nov-1991 LW12 260NT 5.56e+00 UGG 0.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 2.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 4.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 8.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG	40.0	03-nov-1991	LY12	240NT	LT	4.24e-01	UGG
50.0 03-nov-1991 LW12 26DNT 8.72e-01 UGG 45.0 03-nov-1991 LW12 26DNT 2.45e+00 UGG 40.0 03-nov-1991 LW12 26DNT 3.81e+00 UGG 35.0 03-nov-1991 LW12 26DNT 5.56e+00 UGG 0.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 2.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 4.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 8.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG	45.0	03-nov-1991	L¥1Z	240NT	LT	4.24e-01	UGG
45.0 03-nov-1991 LW12 260NT 2.45e+00 UGG 40.0 03-nov-1991 LW12 260NT 3.81e+00 UGG 35.0 03-nov-1991 LW12 260NT 5.56e+00 UGG 0.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 2.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 4.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 8.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG	50.0	03-nov-1991	LU12	24DNT	LT	4.24e-01	UGG
40.0 03-nev-1991 LW12 260NT 3.81e+60 UGG 35.0 03-nev-1991 LW12 260NT 5.56e+00 UGG 0.0 03-nev-1991 LW12 260NT LT 5.24e-01 UGG 2.0 03-nev-1991 LW12 260NT LT 5.24e-01 UGG 4.0 03-nev-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nev-1991 LW12 260NT LT 5.24e-01 UGG 8.0 03-nev-1991 LW12 260NT LT 5.24e-01 UGG 8.0 03-nev-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nev-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nev-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nev-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nev-1991 LW12 260NT LT 5.24e-01 UGG 25.0 03-nev-1991 LW12 260NT LT 5.24e-01 UGG	50.0	03-nov-1991	LU12	26DHT		8.72e-01	UGG
35.0 03-nov-1991 LN12 260NT 5.56e+00 UGG 0.0 03-nov-1991 LN12 260NT LT 5.24e-01 UGG 2.0 03-nov-1991 LN12 260NT LT 5.24e-01 UGG 4.0 03-nov-1991 LN12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LN12 260NT LT 5.24e-01 UGG 8.0 03-nov-1991 LN12 260NT LT 5.24e-01 UGG 8.0 03-nov-1991 LN12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LN12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LN12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LN12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LN12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LN12 260NT LT 5.24e-01 UGG	45.0	03-nov-1991	LW12	260NT		2.45++90	UGG
0.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 2.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 4.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 8.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG	40.0	03-nov-1991	LW12	26DMT		3.81e+G0	UGG
2.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 4.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 8.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG	35.0	03-nov-1991	LW12	26DNT		5.56 e+ 00	UGG
4.0 03-nov-1991 LW12 250NT LT 5.24e-01 UGG 6.0 03-nov-1991 LW12 250NT LT 5.24e-01 UGG 8.0 03-nov-1991 LW12 250NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 250NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 250NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 250NT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 250NT LT 5.24e-01 UGG	0.0	03-nov-1991	LW12	ZáDNT	LT	5.24e-01	UGG
6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 8.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG	2.0	03-nov-1991	LW12	260NT	LT	5.24e-01	UGG
6.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 8.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG	4.0	03-nov-1991	LW12	250NT	LT	5.24e-01	
8.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 10.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 15.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 260NT LT 5.24e-01 UGG	6.0	03-nov-1991	LW12	260NT	LT	5.24e-01	UGG
10.0 03-nav-1991 LW12 260HT LT 5.24e-01 UGG 15.0 03-nav-1991 LW12 260HT LT 5.24e-01 UGG 20.0 03-nav-1991 LW12 260HT LT 5.24e-01 UGG 25.0 03-nav-1991 LW12 260HT LT 5.24e-01 UGG	8.0	03-nov-1991	LW12				
15.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 20.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG	10.0	03-nov-1991					
20.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG 25.0 03-nov-1991 LW12 26DNT LT 5.24e-01 UGG							
25.0 03-nov-1991 LW12 260HT LT 5.24e-01 UGG							
					-		
		03-nov-1991				5.24e-01	UGG

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までは、10mmには、10mmのできた。10mmのでは、10mmのでは、10mmのでは、10mmのできた。10mmのでは、10mmのできた。10m

Installation: Umatilia AD

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

SAMPLE	SAMPLE	7567				
DEPTH (ft		TEST				
) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
30.0			240.00	••••	**********	••••
2.0	03-nov-1991 u3-nov-1991	LW12	260NT	LT	5.24e-01	UGG
8.0		LW12	HPCX		1.61++00	UCG
30.0	03-nov-1991	LW12	HMCX		2.29+00	UGG
30.0	03-nov-1991	LW12	HMCX		1.36e+01	UGG
	03-nov-1991	LW12	HMCX		1.3 9e+ 01	ugg
20.0	03-nov-1991	LW12	HMCX		1.94 e+ 01	UGG
25.0	03-nov-1991	LV12	HMX		2.54 e+ 01	UGG
15.0	03-nov-1991	LW12	HMX		3.03e+01	UGG
0.0	03-nov-1991	LW12	них	LT	6.66e-01	UGG
4.0	03-nov-1991	LW12	HPYC	LT	6.66e-01	UGG
6.0	03-nov-1991	LV12	HMDX	LT	6.664-01	UGG
10.0	03-nov-1991	LH12	HMX	LT	6.66e-01	UGG
35.0	03-nov-1991	LW12	HPCX	LT	6.6 6e -01	UGG
40.0	03-nov-1991	LW12	HMIX	LT	6.66e-01	UGG
45.0	03-nov-1991	LW12	HMOX	LT	6.6 0e- 01	UGG
50.0	03-nov-1991	LW12	HMX	LT	6.66e-01	UGG
8.0	03-nov-1991	LW12	88		4.30e+00	UGG
0.0	03-nov-1991	LW12	MB	LT	2.41++00	UGG
2.0	03-nov-1991	LW12	HS	LT	2.41++00	UGG
4.0	03-nov-1991	LW12	MB	LT	2.41++00	UGG
6.0	03-nov-1991	LW12	NB	LT	2.41++00	UGG
10.0	03-nov-1991	LW1Z	MB	LT	2.41++00	UGG
15.0	03-nov-1991	LW1Z	MB	LT	2.41e+00	UGG "
20.0	03-nov-1991	LW12	NB	LT	2.41e+00	UGG
25.0	03-nov-1991	LW12	MB	LT	2.41++00	UGG
30.0	03-nov-1991	LW12	MB	LT	2.41++00	UGG
30.0	03-nov-1991	LW12	MB	LT	2.41e+00	UGG
35.0	03-nov-1991	LW12	NB	LT	2.410+00	UGG
40.0	03-nov-1991	LW12	HS	LT	2.41e+00	UGG
45.0	03-nov-1991	L¥12	MB	LT	2.41++00	UGG
50.0	03-nov-1991	LU12	NS.	LT	2.41e+00	UGG
50.0	03-nov-1991	LW12	ROX		2.73a+00	UGG
45.0	03-nov-1991	LW12	RDX		3.52++00	UGG
4.0	03-nov-1991	LW12	RDX		6.01e+00	UGG
6.0	03-nov-1991	LW12	ROX		1.13++01	UGG
8.0	03-nov-1991	LW12	RDX		1.67++01	UGG
30.0	03-nov-1991	LW12	ROX		1.83++01	UGG
10.0	03-nov-1991	LV12	RDX		1.92e+01	UGG
30.0	03-nov-1991	1.412	RDX		2.03 e+ 01	UGG
20.0	03-nov-1991	LW12	RDX		2.13e+01	UGG
15.0	0.5-nov-1991	LW12	ROX		2.20e+01	UGG
35.0	03-nov-1991	LW12	ROX		3.10+01	UGG
25.0	03-nov-1991	LW1Z	ROX		3.30++01	UGG
40.0	03-nov-1991	LW12	ROX		3.30e+01	UGG
2.0	03-nov-1991	LW1Z	ROX		1.10+02	UGG
0.0	03-nov-1991	LW12	ROX		2.00+02	UGG
0.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
2.0	03-nov-1991	LW12	TETRYL	LY	7.31e-01	UGG

Analytical Results for Chemical Soil

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Site: BORE S048005 (continued)

SAPLE	SAMPLE	TEST				
DEPTH (1	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
	********		*******	••••		*****
4.0	03-nov-1991	LU12	TETRYL	LT	7.31e-01	UGG
6.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
8.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
10.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
15.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
20.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
25.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
30.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
30.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
35.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
40.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
45.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
50.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG

Site: BORE \$048006

SAMPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	COMPCUND	SOOL	CONCENTRATION	UNITS
•••••	•••••	*****	*******	••••		*****
4.0	03-nov-1991	00	ALK		4.60 e+ 01	UGG
10.0	03-nov-1991	00	ALK		5.00 e+ 01	UGG
0.0	03-nov-1991	00	ALK		1.02+02	UGG
10.0	03-nov-1991	96 .	PH		8.11e+00	
4.0	03-nov-1991	00	PH		8.19e+00	
0.0	03-nov-1991	00	PH		8.27++00	
10.0	03-nov-1991	90	TOC		1.420+03	UGG
4.0	03-nov-1991	90	TOC		3.60++03	UGG
0.0	03-nov-1991	00	TOC		7.34++03	UGG
0.0	03-nov-1991	JE01	KG	LT	5.00e-02	U G G
4.0	03-nov-1991	J#01	KG	LT	5.00e-02	UGG
10.0	03-nov-1991	J 8 01	HG	LT	5.00e-02	UGG
0.0	03-nov-1991	JO15	SE	LT	2.50e-01	UGG
4.0	03-nov-1991	JD15	SE	LT	2.50e-01	UGG
10.0	03-nov-1991	JD 15	SE	LT	2.50e-01	UGG
0.0	03-nov-1991	J017	PB		3.88e+00	UGG
4.0	03-nov-1991	JD17	PB		6.43 ↔ 00	UGG
10.0	03-nov-1991	J017	PS		9.40++00	UGG
0.0	03-nov-1991	JD19	AS		8.96e-01	UGG
4.0	03-nov-1991	JD19	AS		2.56++00	UGG
10.0	03-nov-1991	JD19	AS		4.19=+00	UGG
4.0	03-nov-1991	J\$16	AG		8.13e-01	UGG
10.0	03-nov-1991	J\$16	AG		8.334-01	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

Site: BORE S048006

(continued)

SAIPLE	SAMPLE	TEST				
DEPTH (f		METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
*****	• • • • • • • • • • • • • • • • • • • •			5000	CONCERTRATION	04113
0.0	03-nov-1991	81 ZL	AG		8.76e-01	UGG
0.0	03-nov-1991	J\$16	AL		4.37e+03	UGG
4.0	03-nov-1991	J\$16	AL		7.05e+03	UGG
10.0	03-nev-1991	JS16	AL		7.66e+03	UGG
0.0	03-nov-1991	1516	EA .		7.53e+01	UGG
4.0	03-nov-1991	J\$16	EA		9.77e+01	UGG
10.0	03-nov-1991	J\$16			1.32e+02	UGG
0.0	03-nov-1991	316 312L	BE		1.54e+00	UGG
4.0	03-nov-1991	JS16	1E		2.12e+00	USG
10.0	03-nov-1991	J\$16	SE		2.13+00	UGG
4.0	03-nov-1991	JS16	CA CA		1.110+04	UGG
0.0	03-nov-1991	J516	ä		1.15e+04	UGG
10.0	03-nov-1991	J\$16	ä		1.42e+04	UGG
0.0	03-nov-1991	316 312L	8	LT	7.00e-01	UGS
4.0	03-nov-1991	JS16	8	LT	7.00e-01	UGG
10.0	03-nov-1991	J\$16	8	LT	7.00e-01 7.00e-01	UGG
0.0	03-nov-1991	JS16	83	C.	1.13e+01	UCG
4.0	03-nov-1991	JS16	8		1.31e+01	USG
10.0	03-nov-1991	JS16	8		1.47e+01	UGG
0.0	03-nov-1991	J\$16	CR CR		5.32+400	UGG
4.0	03-nov-1991	JS16	CR CR		1.02e+01	UGG
10.0	03-nov-1991	JS16	CR CR		1.290+01	UGG
4.0	03-nev-1991	J\$16	a T		1.27e+01	UGG
0.0	03-nov-1991	J\$16	 		1.55e+01	UGG
10.0	03-nev-1991	JS16	cu cu	•	1.83e+01	UGG
0.0	03-nov-1991	J516	FE		2.15e+04	UGG
4.0	03-nov-1991	J\$16	7E		2.460+04	UGG
10.0	03-nov-1991	JS16	FE		2.72+04	UGG
0.0	03-nov-1991	J\$16	K		6.95+02	UGG
4.0	03-nov-1991	JS16	ĸ		1.28e+03	UGG
10.0	03-nov-1991	J\$16	K		1.754+03	UGG
0.0	03-nov-1991	JS16	MG		3.84+03	UGG
4.6	03-nov-1991	J\$16	MG		6.74+03	UGG
10.5	J3-nov-1991	J\$16	MG		8.12e+03	UGG
0.0	03-nov-1991	J\$16	HOL		2.99+02	UGG
4.0	03-nov-1991	J\$16	MI		4.07+02	UGG
10.0	03-nov-1991	JS16	M98		5.19**02	UGG
0.0	03-nov-1991	J\$16	XA		2.90e+02	UGG
4.0	03-nov-1991	JS16	NA		3.320+02	UGG
10.0	03-nov-1991	J\$16	XA		4.279-02	UGG
0.0	03-nov-1991	J\$16	ME		5.740+00	UGG
4.0	03-nov-1991	J\$16	NI		9.944+00	UGG
10.0	03-nov-1991	J\$16	MI		1.28++01	UGG
0.0	03-nov-1991	J\$16	58	LT	7.14e+00	UGG
4.0	03-nov-1991	JS16	58	LT	7.14e+00	UGG
10.0	03-nov-1991	J\$16	\$8	LT	7.14++00	UGG
10.0	03-nov-1991	J\$16	TL		1.93++01	UGS
0.0	03-nov-1991	J\$16	TL		2.20+01	UGG
					-	

Installation: Umetilla AD
Analytical Results for Chemical Soil
From: 31-oct-91 To: 19-mar-92

SAMPLE	SAMPLE	TEST		2001		
DEPTH (ft	-	METHOD	COMPOUND	SOOL	CONCENTRATION	UNITS
•••••		*****		••••		
4.0	03-nov-1991	J\$16	TL		2.31e+01	UGG
4.0	03-nov-1991	1516	Y		7.03++01	UGG
0.0	03-nov-1991	JS16	٧		7.14+01	UGG
10.0	03-nov-1991	J\$16	٧		7.17e+01	UGG
0.0	03-nov-1991	JS16	ZN		4.81e+01	UGG
4.0	03-nov-1991	J\$16	ZN		5.34e+01	UGG
10.0	03-nov-1991	JS16	ZN		6.71e+01	UGG
50.0	04-nov-1991	KF10	NIT		1.80e+00	UGG
15.0	03-nov-1991	KF10	MET		1.88e+00	UGG
30.0	03-nov-1991	KF10	NIT		2.83e+00	UGG
20.0	03-nov-1991	KF10	HIT		3.24e+00	UGG
10.0	03-nov-1991	KF10	NIT		3.41e+00	UGG
45.0	04-nov-1991	KF10	NIT		3.55e+00	UGG
25.0	03-nov-1991	XF10	MIT		3.92+00	UGG
35.0	03-nov-1991	KF10	HIT		4.70e+00	UGG
40.0	04-nov-1991	KF10	NIT		6.20e+00	UGG
4.0	03-nov-1991	KF10	NIT		1.30e+01	UGG
8.0	03-nov-1991	KF10	HIT	•	1.40e+01	UGG
2.0	03-nov-1991	XF10	MIT		2.00e+01	UGG
0.0	03-nov-1991	KF10	NIT		2.10e+01	UGG
2.0	03-nov-1991	KF10	NIT		2.20e+01	UGG
6.0	03-nov-1991	XF10	MIT		2.40e+01	UGG
6.4	03-1204-1371	4710	71.1		2.400703	000
0.0	03-nov-1991	LH10	ABHC	LT	9.07e-03	UGG
4.0	03-nov-1991	LH10	ABHC	LT	9.07e-03	UGG
10.0	03-nov-1991	LH10	ABHC	LT	9.07e-03	UGG
0.0	03-nov-1991	LH10	AENSLF	LT	6.02e-03	UGG
4.0	03-nov-1991	LH10	AENSLF	LT	6.02e-03	UGG
10.0	03-nov-1991	LH10	AENSLF	LT	6.02e-03	UGG
0.0	03-nov-1991	LH10	ALDRN	LT	7.29e-03	UGG
4.0	03-nov-1991	LH10	ALDRN	LT	7.294-03	UGG
10.0	03-nov-1991	LH10	ALDRN	LT	7.29e-03	UGG
0.0	03-nov-1991	LH10	RBHC	LT	2.57e-03	UGG
4.0	03-nov-1991	LH10	384C	LT	2.57e-03	UGG
10.0	03-nov-1991	LN10	BAHC	LT	2.57e-03	UGG
0.0	03-nov-1991	LH10	BENSLF	LT	6.434-03	UGG
4.0	03-nov-1991	LN10	BENSLF	LT	6.63e-03	UGG
10.0	03-nov-1991	LH10	BENSLF	LT	6.63e-03	UGG
0.0	03-nov-1991	LH10	DEHC	LT	5.55e-03	UGG
4.0	03-nov-1991	LH10	DBHC	LT	5.554-03	UGG
10.0	03-nov-1991	LHIO	DBHC	LT	5.55e-03	UGG
0.0	03-nov-1991	LH10	DLDRM	LT	6.29e-03	UGG
4.0	03-nov-1991	LH10	DLDRM	LT	6.29e-03	UGG
10.0	03-nov-1991	LH10	DLDAN	LT	6.29e-03	UGG
0.0	03-nov-1991	LH10	ENDRN	LT	6.57e-03	UGG
4.0	03-nov-1991	LH10	ENDRN	LT	6.57e-03	UGG
10.0	03-nov-1991	LH10	ENORN	LT	6.57e-03	UGG
14.0	03-1104-1281	FHIO	ENUKR	L.	3.374-03	VVV

Analytical Results for Chemical Soit From: 31-oct-91 To: 19-mar-92

•			30-18000	(CONC.)	(Mag)	
SAMPLE	SAMPLE	TEST				
DEPTH (ft) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••	********	*****	• • • • • • • • • • • • • • • • • • • •	••••	**********	•••••
0.0	03-nov-1991	LH10	ENDRNA	LT	2.40e-02	UGG
4.0	03-nov-1991	LN10	ENORNA	LT	2.40e-02	UGG
10.0	03-nov-1991	LH10	ENDRNA	LT	2.40e-02	UGG
0.0	03-nov-1991	LH10	ENDRNK	NO	2.40e-02	UGG
4.0	03-nov-1991	LH10	ENDRNK	MO	2.40e-02	UGG
10.0	03-nov-1991	LH10	ENDRNK	NO	2.40e-02	UGG
0.0	03-nov-1991	LH10	ESFS04	LT	7.63e-03	UGG
4.0	03-nov-1991	LH10	ESFS04	LT	7.630-03	UGG
10.0	03-nov-1991	LH10	ESFS04	LT	7.63e-03	UGG
0.0	03-nov-1991	LH10	HPCL	LT	6.18e-03	UGG
4.0	03-nov-1991	LH10	HPCL	LT	6.18e-03	UGG
10.0	03-nov-1991	LH10	HPCL	LT	6.18e-03	UGG
0.0	03-nov-1991	LH10	HPCLE	LT	6.20e-03	UGG
4.0	03-nov-1991	LH10	HPCLE	· LT	6.20e-03	UGG
10.0	03-nov-1991	LH10	HPCLE	LT	6.20e-93	UGG
0.0	03-nov-1991	LH10	ISOUR	LT	4.61e-03	UGG
4.0	03-nov-1991	LH10	ISODR	LT	4.61e-03	UGG
10.0	03-nov-1991	LH10	ISOUR	LT	4.61e-03	UGG
0.0	03-nov-1991	LH10	LIM	LT	6.38e-03	UGG
4.0	03-nov-1991	LH10	LIM	LT	6.38e-03	UGG
10.0	03-nov-1991	LH10	LIN	LT	6.38e:03	UGG
0.0	03-nov-1991	LH10	MEXCLR	LT	7.11e-02	UGG
4.0	03-nov-1991	LH10	MEXCLR	LT	7.11e-02	UGG
10.0	03-nov-1991	LH10	MEXCLR	LT	7.11e-02	UGG
0.0	03-nov-1991	LH10	PPDOO	LT	8.264-03	UGG
4.0	03-nov-1991	LH10	PP000	LT	8.26e-03	UGG
10.0	03-nov-1991	LH10	PP000	LT	8.26e-03	UGG
0.0	03-nov-1991	LH10	PPOOE	LT	7.65e-03	UCG
4.0	03-nov-1991	LH10	PPDOE	LT	7.65e-03	UGG
10.0	03-nov-1991	LH10	PPOOE	LT	7.65e-03	UGG
0.0	03-nov-1991	LH10	PPOOT	LT	7.07e-03	UGG
4.0	03-nov-1991	LH10	PPOOT	LT	7.07e-03	UGG
10.0	03-nov-1991	LH10	PPOOT	LT	7.07e-03	UGG
0.0	03-nov-1991	LH10	TXPHEN	LT	4.44e-01	UGG
4.0	03-nov-1991	LH10	TXPHEN	LT	4.440-01	UGG
10.0	03-nov-1991	LN10	TXPHEN	LT	4.44e-01	UGG
0.0	03 1004					
4.0	03-nov-1991	LN16	PCB016	LT	6.664-02	UGG
10.0	03-nov-1991	LN16	PC8016	LT	6.664-02	UGG
0.0	03-nov-1991	LH16	PCB016	LT	6.66-02	UGG
	03-nov-1991	LN16	PC8221	MD	8.20e-02	UGG
4.0 10.0	03-nov-1991	LN16	PCBZ21	MD	8.20e-02	UGG
	03-nov-1991	LH16	PC8221	MD	8.204-02	UGG
0.0	03-nov-1991	LH16	PCB232	MO	8.20e-02	UGG
4.0 10.0	03-nov-1991	LH16	PC8232	MD	8.20e-02	UGG
	03-nov-1991	LH16	PC8232	NO	8.20e-02	UGG
0.0	03-nov-1991	LH16	PCB242	NO.	8.20e-02	UGG
4.0	03- nov-1991	LH16	PC#242	ND	8.20e-02	UGG

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SAMPLE	SAMPLE	TEST				
DEPTH (ft) DATE	METHOD	COMPOUND	BCOL	CONCENTRATION	UNITS
*****	********	*****	******	****	***********	•••••
10.0	03-nov-1991	LH16	PC8242	HO	5.20e-02	UGG
0.0	03-nov-1991	CH16	PC8248	MD	8.20e-02	UGG
4.0	03-nov-1991	LH16	PCB248	NO	8.20e-02	UGG
10.0	03-nov-1991	LH16	PC8248	NO	8.20e-02	UGG
0.0	03-nov-1991	LH16	PC8254	NO	8.20a-02	UGG
4.0	03-nov-1991	LH16	PC8254	MD	8.20e-02	UGG
10.0	05-nov-1991	LH16	PCB254	MO	8.20e-02	UGG
0.0	03-nov-1991	LH16	PC8260	LT	8.04e-02	UGG
4.0	03-nov-1991	LH16	PC\$260	LT	8.04e-02	UGG
10.0	03-nov-1991	LH16	PC\$260	LT	8.04e-02	UGG
0.0	03-nov-1991	LM18	124TCB	LT	4.00e-02	UGG
4.0	03-nov-1991	LM18	124TCB	LT	4.00e-02	UGG
10.0	03-nov-1991	LH18	124TCB	LT	4.00e-02	UGG
. 0.0	03-nov-1991	LM18	120CL2	LT	1.10e-01	UGG
4.0	03-nov-1991	LH18	12DCLB	LT	1.10e-01	UGG
10.0	03-nov-1991	LM18	120CL8	LT	1.10e-01	UGG
0.0	03-nov-1991	UH18	120PH	MO	1.40e-01	UGG
4.0	93-nov-1991	LN18	120PH	MD	1.40e-01	UGG
10.0	03-nov-1991	LM18	120PH	MD	1.40e-01	UGG
0.0	03-nov-1991	LH18	130CLB	LT	1.30e-01	UGG
4.0	03-nov-1991	LH18	130CL8	LT	1.30e-01	UGG
10.0	03-nov-1991	LM18	130CLB	LT	1.30e-01	UGG
0.0	03-nov-1991	J.M18	140018	LT	9.80e-02	UGG
4.0	03-nov-1991	LH18	14DCLB	LT	9.80e-02	UGG
10.0	03-nov-1991	LH18	140018	LT	9.80e-02	UGG
0.0	03-nov-1991	LM18	24STCP	LT	1.00e-01	UGG
4.0	03-nov-1991	LH18	245TCP	LT	1.00e-01	UGG
10.0	03-nov-1991	LH18	245TCP	LT	1.00e-01	UGG
9.0	03-nov-1991	LN18	246TCP	LT	1.70e-01	UGG
4.0	03-nov-1991	LH18	246TCP	LT	1.70e-01	UGG
10.0	03-nov-1991	UH1S	2461CP	LT	1.70a-01	UGG
0.0	03-nov-1991	LH18	240CLP	LT	1,80e-01	UGG
4.0	03-nov-1991	LH18	240CLP	LT	1.50e-01	UGG
10.0	03-nov-1991	LH18	24DCLP	LT	1.50e-01	UGG
0.0	03-nov-1991	LM18	24DMPM	LT	6.90e-01	UGG
4.0	93-nov-1991	LN18	240MPH	LT	6,90e-01	UGG
10.0	03-nov-1991	LH18	24DMP11	LT	6,90e-01	UGG
0.0	03-nov-1991	LH18	24DNP	LT	1.20e+00	UGG
4.0	03-nov-1991	LM18	240MP	LT	1.20 e+ 00	UGG
10.0	03-nov-1991	LH18	240MP	LT	1,20+00	UGG
0.0	03-nov-1991	UN18	240NT		4.85e-01	UGG
4.0	03-nov-1991	LH18	240NT	LT	1.40e-01	UGG
10.0	03-nov-1991	LH18	24DNT	LT	1.40e-01	UGG
0.0	03-nov-1991	LH18	260NT	LT	8.50e-02	UGG
4.0	03-nov-1991	LH18	260NT	LT	8.50e-02	UGG
10.0	03-nov-1991	LM18	260NT	LT	8.50e-02	UGG
0.0	03-nov-1991	LNIS	2CLP	LT	6.00e-02	UGS

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

SAMPLE	SAMPLE	TEST				
DEPTH (ft		METHOD	COMPOUND	E001		
*****	, WAIE	*****	COMPOUND	SOOL	CONCENTRATION	UNITS
4.0	03-nov-1991		20.0		************	••••
10.0	03-nov-1991	LM18	2CLP	LT	6.00+-02	UGG
0.0	03-nov-1991	LA18	2CLP	LT	6.000-02	UGG
		LH18	2CXAP	LT	3.600-02	UGG
4.0 10.0	03-nov-1991	LH18	ZCXAP	LT	3.60e-02	UGG
	03-nov-1991	LM18	2CNAP	LT	3.60e-02	UGG
0.0	03-nov-1991	LH18	2HHAP	LT	4.90e-02	UGG
4.0	03-nov-1991	LH18	ZHIAP	LT	4.90e-02	UGG
10.0	03-nov-1991	LH18	2MIAP	LT	4.90e-02	UGG
0.0	03-nov-1991	LM18	2HP	LT	2.90e-02	UCG
4.0	03-nov-1991	LH18	214P	LT	2.90e-02	UGG
10.0	03-nov-1991	LH18	2#P	LT	2.90e-02	UGG
0.0	03-nov-1991	LM18	TIMAKS	LT	6.20e-02	UGG
4.0	03-nov-1991	LH18	ZNAN1L	LT	6.20e-02	UGG
10.0	03-nov-1991	LH18	ZNANIL	LT	6.20e-02	UGG
0.0	03-nov-1991	LHIS	2NP	LT	1.40e-01	UCG
4.0	03-nov-1991	LH18	ZNP	LT	1.40e-01	UGG
10.0	03-nov-1991	LH18	ZNP	LT	1.40e-01	UGG
0.0	03-nov-1991	LH18	330 080	LT	6.30+00	UGG
4.0	03-nov-1991	LH18	330CB0	*LT	6.30e+00	UGG
10.0	03-nov-1991	LH18	330CR0	LT	6.30e+00	UGG
0.0	03-nov-1991	LN18	3MANIL	LT	4.50e-01	UGG
4.0	03-nov-1991	LH18	3NAN IL	LT	4.50e-01	UGG
10.0	03-nov-1991	LM18	3NAN I L	LT	4.50e-01	UGG
0.0	03-nov-1991	LH18	46DHZC	LT	5.50e-01	UGG
4.0	03-nov-1991	LM18	46DHZC	LT	5.50e-01	UGG
10.0	03-nov-1991	LM18	460HZC	LT	5.50e-01	UGG
0.0	03-nov-1991	LH18	4BRPPE	LT	3.300-02	UGG
4.0	03-nov-1991	LH18	4BRPPE	LT	3.30e-02	UGG
10.0	03-nov-1991	LH18	48RPPE	LT	3.30e-02	UGG
0.0	03-nov-1991	LH18	4CANIL	LT	8.10e-C1	UGG
4.0	03-nov-1991	LH18	4CAN1L	LT	8.10e-01	UGG
10.0	03-nov-1991	LH18	4CANIL	LT	8.10e-01	UGG
0.0	03-nov-1991	LH18	4CL3C	LT	9.50e-02	UGG
4.0	03-nov-1991	LH18	4CL3C	LT	9.50e-02	UGG
10.0	03-nov-1991	LH18	4CL3C	LT	9.50e-02	UGG
0.0	03-nov-1991	LH18	4CLPHE	LT	3.30e-02	UGG
4.0	03-nov-1991	LH18	4CLPPE	LT	3.30e-02	UGG
10.0	03-nov-1991	LH18	4CLPPE	LT	3.30e-02	UGG
0.0	93-nov-1991	LH18	440	LT	2.40e-01	UGG
4.0	03-nov-1991	LH18	4349	LT	2.40e-01	UGG
10.0	03-nov-1991	LM18	4HP	LT	2.40e-01	UGG
0.0	03-nov-1991	LM18	ANANIL	LT	4.109-01	UGG
4.0	03-nov-1991	LM18	ANANIL	LT	4.10e-01	UGG
10.0	03-nov-1991	LH18	4NANIL	LT	4.10e-01	UGG
0.0	03-nov-1991	LN18	4NP	LT	1.40=+00	UGG
4.0	03-nov-1991	LH18	4MP	LT	1.40e+00	UGG
10.0	03-nov-1991	LM18	4NP	LT	1.40=+00	UGG
0.0	03-nov-1991	LM18	ABHC	MD	2.70e-01	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAMPLE	SAMPLE	TEST				
DEPTH (ft	-	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••				••••	***********	••••
4.0	03-nov-1991	LH13	ABHC	MO	2.70e-01	UGG
10.0	03-nov-1991	LH18	ASHC	NO	2.70e-01	UGG
0.0	03-ruv-1991	LH18	ACLDAN	NO	3.30e-01	UGG
4.0	03-nov-1991	LM18	ACLDAN	NO	3.304-01	UGG
10.0	03-nov-1991	LH18	ACLDAN	MD	3.30e-01	UGG
0.0	03-nov-1991	LM18	AENSLF	NO	6.20e-01	UGG
4.0	03-nov-1991	LH18	AENSLF	NO	6.20e-01	UGG
10.0	03-nov-1991	LM18	AENSLF	WO	6.20e-01	UGG
0.0	03-nov-1991	LH18	ALDRH	NO	3.30e-01	UGG
4.0	03-nov-1991	LM18	ALDRN	NO	3.30e-01	UGG
10.0	03-nov-1991	LH18	ALDRN	MD	3.309-01	UGG
0.0	03-nov-1991	LH18	ANAPHE	LT	3.60e-02	UGG
4.0	03-nov-1991	LH18	ANAPHE	LT	3.600-02	UGG
10.0	03-nov-1991	LH18	ANAPHE	LT	3.60e-02	UGG
0.0	03-nov-1991	LH18	ANAPYL	LT	3.30e-02	UGG
4.0	03-nov-1991	LH18	ANAPYL	LT	3.30e-02	UGG
10.0	03-nov-1991	LH18	ANAPYL	LT	3.30e-02	UGG
0.0	03-nov-1991	LH18	ANTRC	LT	3.30e-02	UGG
4.0	03-nov-1991	LH18	ANTRO	LT	3.30e-02	UGG
10.0	03-nov-1991	LM18	ANTRC	LT	3.30e-02	UGG
0.0	03-nov-1991	LH18	E2CEXM	LT	5,90e-02	UGG
4:0	03-nov-1991	LM18	\$2CEXPI	LT	5.90a-02	UGG
10.0	03-nov-1991	LM18	B2CEXIN	LT	5.90e-02	UGG
0.0	03-nov-1991	LM18	BECIPE	LT	2.00e-01	UGG
4.0	03-nov-1991	LH18	BZCIPE	LT	2.00e-01	UGG
10.0	03-nov-1991	LM18	BZCIPE	LT	2.00e-01	UGG
0.0	03-nov-1991	LM18	BECLEE	LT	3.30e-02	UGG
4.0	03-nov-1991	LM18	BZCLEE	LT	3.30e-02	UGG
10.0	03-nov-1991	LH18	BZCLEE	LT	3.30e-02	UGG
9.0	03-nov-1991	UH18	BZEHP	LT	6.20e-01	HGG
4.0	03-nov-1991	LHIS	BZEHP	LT	6.20e-01	UGG
10.0	03-nov-1991	LH18	32EHP	LT	6.2001	UGG
0.0	03-nov-1991	LH18	BAANTR	LT	1.700-01	UGG
4.0	03-nov-1991	LH18	BAANTR	1.7	1.70e-01	UCG
10.0	03-nov-1991	LH18	BAANTR	LT	1.70e-01	UGG
0.0	03-nov-1991	LH18	BAPYR	LT	2,504-01	UGG
4.0	03-nov-1991	LH18	BAPYR	LT	2.50e-01	UGG
10.0	03-nov-1991	LH18	DAPYR	LT	2,50e-01	UGG
0.0	03-nov-1991	LH18	BSFANT	LT	2.1Ge-01	UGG
4.0	03-nov-1991	UN18	BBFANT	LT	2.104-01	UGG
10.0	03-nov-1991	LH18	BEFANT	LT	2,10a-01	UGG
0.0	03-nov-1991	LH18	BBHC	NO.	2.70a-01	UGG
4.0	03-nov-1991	LH18	SSHC	XO	2.70e-01	UGG
10.0	03-nov-1991	LM18	88HC	NO NO	2.70e-01	UGG
0.0	03-nov-1991	LH18	38ZP	LT	1,79e-01	UGG
4.0	03-nov-1991	LMIS	552P	LT	1.704-01	UGS
10.0	03-nov-1991	LH18	BSZP	LT	1.70e-01	UGG
0.0	03-nov-1991	LM18	BENSLF	MD.	6.20e-01	UGG
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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

SAMPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	COMPOÚNO	BOOL	CONCENTRATION	L iii is
*****	******	*****	*******	••••	concentration	A 113
4.0	03-nov-1991	LM18	BENSLF	MD-	6.20e-01	UGG
10.0	03-nov-1991	LM18	BENSLF	ND	6.20e-01	UGG
0.0	03-nov-1991	LN18	BENZID	ND	8.50e-01	UGG
4.0	03-nov-1991	LH18	BENZID	NO	8.50e-01	UGG
10.0	03-nov-1991	LM18	BENZID	NO	8.50e-01	UGG
0.0	03-nov-1991	LH18	BENZOA	MD	6.10e+00	UGG
4.0	03-ncv-1991	LH18	BENZOA	NO.	6.10e+00	UGG
10.0	03-nov-1991	LH18	BENZOA	MD	6.10e+00	UGG
0.0	03-nov-1991	LH18	SCHIPY	LT	2.50e-01	UGG
4.0	03-nov-1991	LH18	SGHIPY	LT	2.50e-01	UGG
10.0	03-nov-1991	LH18	BGHIPY	LT	2.50e-01	UGG
0.0	03-nov-1991	LM18	BKFANT	LT	6.60e-02	UGG
4.0	03-nov-1991	LN18	BKFAHT	LT	6.60e-02	UGG
10.0	03-nov-1991	LH18	BKFANT	LT	6.60e-02	UGG
0.0	03-nov-1991	U118	BZALC	LT	1.90e-01	UGG
4.0	03-nov-1991	LH18	PZALC	LT	1.90e-01	UGG
10.0	03-nov-1991	LH18	BZALC	LT	1.90e-01	UGG
0.0	03-nov-1991	LH18	CHRY	LT	1.20e-01	UGG
4.0	03-nov-1991	LM18	CHRY	LT	1.204-01	UGG
10.0	03-nov-1991	LK18	CHRY	LT	1.20e-01	UGG
0.0	03-nov-1991	LM18	CLASZ	LT	3.30e-02	UGG
4.0	03-nov-1991	LN18	CL68Z	LT	3.30e-02	220
10.0	03-nov-1991	LM18	CLSBZ	LT	3.30e-62	UGG
0.0	03-nov-1991	LH18	CLÓCP	LT	6.20 e+ 00	UGG
4.0	03-nov-1991	U418	CLOCP	L7	6.20e+00	ucc
10.0	03-nov-1991	LH18	CL6CP	LT	6.20e+00	UGG
0.0	03-nov-1991	LH18	CL6ET	LT	1.50e-01	UGG
4.0	03-nov-1991	UHS	CL6ET	LT	1.50e-01	UGG
10.3	03-nov-1991	LM18	CLOST	LT	1,50e-01	UGG
0.0	03-nov-1991	LH18	DEAHA	LT	2.10e-01	ucc
4.0	03-nov-1991	LH18	DEAHA	LT	2.10e-01	UGG
10.0	03-nov-1991	LH18	DBAKA	LT	2.10e-01	UGG
0.0	03-nov-1991	LM18	DSHC	MD	2.70e-01	UGG
4.0	03-nev-1991	LH18	DBHC	MD	2.70e-01	UGG
10.0	03-nov-1991	LH18	DBHC	MO	2.70e-01	UGG
0.0	03-nov-1991	LH18	OBZFUR	LT	3.50e-02	UGG
4.0	03-nov-1991	LH18	DEZFUR	LT	3.50e-02	UGG
10.0	03-nov-1991	LH18	CEZFUR	LT	3.50e-02	UGG
0.0	03-nov-1991	L418	DEP	LT	2.40+-01	UGG
4.0	03-nov-1991	LH18	DEP	LT	2.40e-01	UGG
19.9	03-nov-1991	LH18	DEP	LT	2.40e-01	UGG
0.0	03-nov-1991	LH18	DLDRM	MD	3.10e-01	UGG
4.0	03-nov-1991	LM18	CLDRN	W	3.10e-01	UGG
10.0	93-nov-1991	LM18	DLDRN	MD	3.10e-01	UGG
0.0	03-nov-1991	LM18	DMP	LT	1.70e-01	UGG
4.0	03-nov-1991	LM18	DAMP	LT	1.70e-01	UGG
10.0	03-nov-1991	LH18	DIEP	LT	1.70e-01	UGG
0.0	03-nev-1991	LH18	DNEP	LT	6.10e-02	UGG
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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAMPLE	SAMPLE	7007				
		TEST		i. ·		
DEPTH (ft) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
	•				4 14 45	
4.0	03-nov-1991	LM18	DNSP	LT	6.100-02	UGG
10.0	03-nov-1991	LM18	DNBP	LT	6.10e-02	UGG
0.0	03-nov-1991	LM18	DNOP	LT	1.90e-01	UGG
4.0	03-nov-1991	LH18	DNOP	LT	1.90e-01	UGG
10.0	03-nov-1991	LM18	DNOP	LT	1.90e-01	UGG
0.0	03-nov-1991	LM18	ENORM	MD	4.50e-01	UGG
4.0	03-nov-1991	LM18	ENORM	MD	4.50e-01	UGG
10.0	03-nov-1991	LM18	ENDRM	NO	4.50e-01	UGG
0.0	03-nov-1991	LM18	ENDRNA	NO	5.30e-01	UGG
4.0	03-nov-1991	LH18	ENDRNA	MO	5.30e-01	UGG
10.0	03-nov-1991	LM18	ENDRNA	NO	5.30e-01	UGG
0.0	03-nov-1991	LM18	ENDRNK	NO	5.30e-01	UGG
4.0	03-nov-1991	LH18	ENDRNK	MO	5.30 a -01	UGG
10.0	03-nov-1991	LM18	ENDRNK	MD	5.30e-01	UGG
0.0	03-nov-1991	LM18	ESFS04	NO	6.20e-01	UGG
4.0	03-nov-1971	LM18	ESFS04	ND	6.20e-01	UGG
10.0	03-nov-1991	LH18	ESFS04	ND	6.20e-01	UGG
0.0	03-nov-1991	LM18	FANT	LT	6.80e-02	UGG
4.0	03-nov-1991	LH18	FANT	LT	6.80e-02	UGG
10.0	03-nov-1991	LH18	FANT	LT	6.80e-02	UGG
0.0	03-nov-1991	LH18	FLRENE	LT	3.30e-02	UGG
4.0	03-nov-1991	LH18	FLRENE	LT	3.30e-02	UGG
10.0	03-nov-1991	LM18	FLRENE	LT	3.30e-02	UGG
0.0	03-nov-1991	LM18	GCLDAN	MO	3.30e-01	UGG
4.0	03-nov-1991	LH18	GCLDAN	MO	3.30e-01	UGG
10.0	03-nov-1991	LM18	GCLDAN	MD	3.30e-01	UGG
0.0	03-nov-1991	LH18	HCSD	LT	2.30e-01	UGG
4.0	03-nov-1991	LH18	HCBO	ŁT	2.30e-01	UGG
10.0	03-nov-1991	LM18	HCBO	LT	2.30e-01	UGG
0.0	03-nov-1991	LM18	HPCL	MD.	1.30e-01	UGG
4.0	03-nov-1991	LH18	HPCL	NO	1.30e-01	UGG
10.0	03-nov-1991	LM18	HPCL	NO	1.30e-01	UGG
0.0	03-nov-1991	LM18	HPCLE	MO	3.30e-01	UGG
4.0	03-nov-1991	LH18	HPCLE	ND	3.30e-01	UGG
10.0	03-nov-1991	LM18	HPCLE	MD	3.30e-01	UGG
4.0	03-nov-1991	LN18	HXMETA		2.11e+00	UGG
0.0	03-nov-1991	LH18	COPYR	LT	2.90e-01	UGG
4.0	03-nov-1991	LM18	ICOPYR	LT	2.90e-01	UGG
10.0	03-nov-1991	LH18	1CDPYR	LT	2.90e-01	UGG
0.0	03-nov-1991	LH18	ISOPHR	LT	3.30e-02	UGG
4.0	03-nov-1991	LH18	1 SOPHR	LT	3.30a-02	UGG
10.0	03-nov-1991	LH18	ISOPHR	LT	3.30e-02	UGG
0.0	03-nov-1991	LH18	LIN	XD	2.70e-01	UGG
4.0	03-nov-1991	LM18	LIN	MO	2.70e-01	UGG
10.0	03-nov-1991	LH18	LIN	¥O	2.70e-01	UGG
0.0	03-nov-1991	LN18	MEXCLR	KO	3.30e-01	UGG
4.0	03-nov-1991	LH18	MEXCLR	MO	3.30e-01	UGG
10.0	03-nov-1991	LH18	MEXCLR	NO	3,30e-01	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAMPLE	SAMPLE	TEST				
DEPTH (ft) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••			*******		***********	
0.0	03-nov 1991	L#18	NAP	LT	3.70e-02	UGG
4.0	03-nov-1991	LM18	NAP	LT	3.70e-02	UGG
10.0	03-nov-1991	LH18	NAP	LT	3.70e-02	UGG
0.0	03-nov-1991	LM18	NB	LT	4.50e-02	UGG
4.0	03-nov-1991	LH18	NB	LT	4.50e-02	UGG
10.0	03-nov-1991	LH18	NB	LT	4.50e-02	
0.0	03-nov-1991	LH18	NNOMEA	MD	1.40e-01	UGG
4.0	03-nov-1991	LM18	NHOMEA	ND	1.40e-01	UGG
10.0	03-nov-1991	LH18	NNDMEA	NO.	1.40e-01	
0.0	03-nov-1991	LH18	NNOHEA	LT	2.00e-01	UGG
4.0	03-nov-1991	LM18	NKONPA	LT		UGG
10.0	03-nov-1991	LM18	NNCHPA		2.00e-01	UGG
0.0	03-nov-1991	LM18		LT	2.00e-01	UGG
4.0	03-nov-1991	LH18	NNOPA	LT	1.90e-01	UGG
10.0	03-nov-1991		NNOPA	LT	1.90e-01	UGG
0.0	03-nov-1991	LM18	NNOPA	LT	1.90e-01	UGG
4.0		LX18	PC8016	MD	1.40++00	UGG
	03-nov-1991	LH18	PC8016	MO	1.40 e+ 00	UGG
10.0	03-nov-1991	LM18	PC8015	MO	1.40 e+ 00	UGG
0.0	03-nov-1991	LH18	PC8221	MD	1.40 e+ 00	LCP
4.0	03-nov-1991	LM18	PC8221	MO	1.40++00	UGG
10.0	03-nov-1991	LM18	PCB221	HO	1.40++00	UGG
0.0	03-nov-1991	LH18	PC3232	MD	1.400+00	UGG
4.0	03-nov-1991	LH18	PC8232	MD	1.40 e+ 00	UGG
10.0	03-nov-1991	LH18	PC8232	150	1.40++00	UCG
0.0	03-nov-1991	LH18	PCBC42	MD	1.40e+00	UGG
4.0	03-nov-1991	LH18	PC8242	MO	1.40++00	366
10.0	03-nov-1991	LH18	PC#242	MD	1.40++00	UGG
0.0	03-nov-1991	LM18	PCB248	NO	2.00 € 00	UGL
4.0	03-nov-1991	LH18	PC#248	MD	2.00e+00	LGG
10.0	03-nov-1991	UH18	PC8248	MO	2.00+00	UGG
0.6	03-nov-1991	LM18	PC8254	MO	2.30e+00	UGG
4.0	03-nov-1991	LH18	PCB254	MO	2.30e+00	UGG
10.0	03-nov-1991	LH18	PC8254	MO	2.30 e+ 00	!XGG
0.0	03-nov-1991	LH18	PC8260	MD	2.60e+00	UGG
4.0	03-nov-1991	LH18	PCB260	NC	2.60+00	UGG
10.0	03-nov-1991	LH18	PCB260	NO	2.60e+0G	UGG
0.0	03-nov-1991	LH18	PCP	LT	1.30++00	UGG
4.0	03- nov- 1991	LH18	PCP	LT	1.30e+00	ues
10.0	03-nov-1991	LH18	PCP	LT	1.30e+00	UGG
0.0	03-nov-1991	LH18	PHANTR	LT	3.30e-02	UGG
4.0	03-nov-1991	LM18	PHANTE	LT	3.30e-02	UGG
10.0	03-nov-1991	LH18	PHANTE	LT	3.304-02	UGS
0.0	03-nov-1991	LH18	PHENOL	LT	1.10e-01	UGG
4.0	03-nov-1991	LM18	PHENOL	LT	1.10e-01	UGG
10.0	03-nov-1991	LH18	PHENOL	LT	1.10e-01	UGG
0.0	03-nov-1991	LH18	PP000	MO	2.70e-01	UGG
4.0	C3-nov-1991	LM18	PPOND	MD.	2.70e-01	UGG
10.0	03-nov-1991	LM18	PP000	ЖO	2.70e-01	UGG

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Analytical Results for Chemical Soil

From: 31-oct-91 To: 19-mar-92

24401 F	CAMBLE	tret				
SAMPLE	SAMPLE	TEST		2001		
DEPTH (f	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••					7 44 44	
0.0	03-nov-1991	LM18	PPCOE	NO	3.10e-01	UGG
4.0	03-nov-1991	LM18	PPODE	MD	3.10e-01	UGG
10.0	03-nov-1991	LM18	PPODE	MD	3.10e-01	UGG
0.0	03-nov-1991	LM18	PPOOT	MD	3.10e-01	UGG
4.0	03-nov-1991	LM18	PPODT	ND	3.10e-01	UGG
10.9	03-nov-1991	LH18	PPOOT	MO	5.10e-01	UGG
0.0	03-nov-1991	LM18	PYR	LT	3.30e-02	UGG
4.0	03-nov-1991	LM18	PYR	LT	3.30e-02	UGG
10.0	03-nov-1991	LM18	PYR	LT	3.30e-02	UGG
0.0	03-nov-1991	LM18	TXPHEN	MD	2.60e+00	UGG
4.0	03-nov-1991	LH18	TXPHEN	MD	2.60e+00	UGG
10.0	03-nov-1991	LH18	TXPHEN	. NO	2.60 e+ 00	UGG
0.0	03-nov-1991	LH18	UNKS17		1.05e+00	UGG
4.0	03-nov-1991	LH18	UNKS17		1.06e+00	UGG
0.0	03-nov-1991	LH18	UNKS54		6.33e-01	UGG
4.0	03-nov-1991	LM18	UNK555		3.17e-01	UGG
0.0	03-nov-1991	LM18	UNKS94 T		7.38++02	UGG
10.0	03-nov-1991	LH18	UNK595 *		4.80e+00	UGG
4.0	03-nov-1991	LM18	UNK595 *		6.34e+00	UGG
0.0	03-nov-1991	LM18	UNK598		9.49e-01	UGG
4.8	03-nov-1991	LM18	UNK633		7.40e-01	UGG
10.0	03-nov-1991	LM18	UNK642 .		8.40e-01	UGG
0.0	03-nov-1991	LM18	UNK644		1.95++00	UGG
0.0	03-nov-1991	LH18	UNK651		3.16€+00	UGG
4.0	03-nov-1991	UM18	UNK655		1.06e+01	UGG
0.0	03-nov-1991	LM18	UNK658		6.33++00	UGG
4.0	03-nov-1991	LH18	UNK660		3.17a-01	UGG
0.0	03-nov-1991	LM18	UNX667		1.05e+00	UGG
0.0	03-nov-1991	LH18	UNK668		2.11++01	UGG
4.0	03-nov-1991	LN18	UNK669		5.29e-01	UGG
0.0	03-nov-1991	LH18	UNKASO		2.11++01	UGG
4.0	03-nov-1991	LH18	UNK581		3.17e-01	UGG
4.0	03-nov-1991	LH18	UNX585		6.34++00	UGG
0.0	03-nov-1991	LM18	U#1693		1.05e+00	UGG
0.0	03-nov-1991	LM18	UNK694		1.05e+01	UGG
4.0	03-nov-1991	LH18	UNK696		3.17e-01	UGG
0.0	03-nov-1991	LH19	111TCE	LT	4,40e-03	UGG
4.0	03-nov-1991	LH19	11TCE	L7	4.40e-03	UGG
10.0	03-nov-1991	LM19	111TCE	LT	4.40e-03	UGG
0.0	03-nov-1991	LM19	112705	LT	5,404-03	UGC
4.0	03-nov-1991	LH19	112705	LT	5.40e-03	UGC
10.0	03-nov-1991	LM19	112702	LT	5.40e-03	UGG
0.0	03-nov-1991	LM19	11DCE	LT	3.90e-03	UGG
4.0	03-nov-1991	LM19	11005	LT	3.90e-03	UGG
10.0	03-nov-1991	LM19	110CE	LT	3.90e-03	UGG
0.0	03-nov-1991	LH19	11DCLE	LT	2.30=-03	UGG
4.0	03-nov-1991	LH19	110CLE	LT	2.30-03	UGG
7.0	THE 1707 1771	W4117	110465		*********	-44

[&]quot;Trinitrotoluene

^{*}Trinitrobenzene

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

SAMPLE	SAMPLE	TEST				
DEPTH (ft		METHOD	COMPOUND	BOOL	CONCENTRATION	14170
*****			· · · · · · · · · · · · · · · · · · ·	••••	CONCENTRATION	UNITS
10.0	03-nov-1991	LH19	11DCLE	LT	2.30e-03	
0.0	03-nov-1991	LH19	120CE	L?	3.60e-03	UGG
4.0	03-nov-1991	LM19	120CE	LT	3.00e-03	UGG
10.0	03-nov-1991	LM19	120CE		•	UGG
0.0	03-nov-1991	LH19	120CE	LT	3.004-03	UGG
4.0	03-nov-1991	LM19	120015	LT	1.70e-03	UGG
10.0	03-nov-1991	LH19		LT	1.7003	UGG
0.0	03-nov-1991	LH19	120CLE 120CLP	LT	1.70e-03	UGG
4.0	03-nov-1991	LM19		LT	2.99e-03	UGG
10.0	03-nov-1991	LH19	120CLP	LT	2.904-03	UGG
0.0	03-nov-1991	LH19	120CLP	LT	2.90e-03	UGG
4.0	03-nov-1991		SCLEVE	ND HD	1.004-02	UGG
10.0	03-nov-1991	LH19	2CLEVE	MO	1.0002	UGG
0.0	03-nov-1991	LM19	SCLEAE	MO	1.00e-02	UGG
4.0	03-nov-1991	LH19	ACET	LT	1.70e-02	UGG
10.0	03-nov-1991	LM19	ACET	LT	1.70e-02	UGG
0.0	03-nov-1991	LH19 -	ACET	LT	1.70e-02	UGG
4.0		LM19	ACROUN	NO	1.00e-01	UGG
10.0	03-nov-1991	LM19	ACROLN	HD	1.00e-01	UGG
	03-nov-1991	LM19	ACROLN	HD	1.00e-01	UGG
8.0	03-nov-1991	LH19	ACRYLO	MD	1.00 e -01	UGG
4.0	03-nov-1991	LX19	ACRYLO	MO	1.00e-01	UGG
10.0	03-nov-1991	LM19	ACRYLO	MO	1.0001	UGG
0.0	03-nov-1991	LM19	BRDCLM	LT	2.90e-03	UGG
4.0	03-nov-1991	LH19	BRDCLM	LT	2.90e-03	UGG
10.0	03-rov-1991	LH19	BRDCLM	LT	2.904-03	UGG
0.0 4.0	03-nov-1991	LM19	C130CP	LT	3.20e-03	UGG
	03-nov-1991	LH19	С130СР	LT	3.20e-03	UGG
10.0	03-nov-1991	LM19	C13DCP	LT	3.20e-03	UGG
0.0	03-nov-1991	LM19	C2AVE	LT	3.20e-03	UGG
4.0 10.0	03-nov-1991	LM19	CZAVE	LT	3.20e-63	UGG
0.0	03-nov-1991	LH19	CZAVE	LT	3.20e-03	UGG
4.0	03-nov-1991	LH19	C2H3CL	Lī	6.2003	UGG
10.0	03-nov-1991 03-nov-1991	LM19	C2H3CL	LT	6.20e-03	UGG
0.0		LM19	C2H3CL	LT	6.20e-03	UGG
4.0	03-nov-1991	LM19	C2H5CL	LT	1.20e-02	UGG
	03-nov-1991	LH19	C2H5CL	LT	1.20e-02	UGG
10.0	03-nov-1991	LH19	CZHSCL	LT	1.20e-02	UGG
0.0 4.0	03-nov-1991	LH19	C6N6	LT	1.50e-03	UGG
10.0	03-nov-1991	LN19	C6H6	LT	1.50e-03	UGG
	03-rov-1991	LN19	COHO	LT	1.50e-03	UGG
0.0	03-nov-1991	LH19	CCL3F	LT	5.90e-03	UGG
4.0	03-nov-1991	LM19	CCL37	LT	5.90e-03	UGG
10.0	03-nov-1991	LM19	CCL3F	LT	5.90e-03	UGG
9.0	03-150v-1991	LN19	CCL4	LT	7.000-03	UGG
4.0	03-rov-1991	LM19	CCL4	LT	7.00e-03	UGG
10.0	03-nov-1991	LH17	CCL4	LT	7.00e-03	UGG
0.0	03-nov-1991	LM19	CHSCFS	LT	1.20e-02	UGG
4.0	03-nov-1991	LM19	CHSCFS	LT	1.204-02	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAMPLE	SAMPLE	TEST				
DEPTH (ft) DATE	METHOD	COP.POUND	BOOL	CONCENTRATION	UNITS
*****	********		******			
10.0	03-nov-1991	LH19	CH2CL2	LT	1.20e-02	UGG
0.0	03-nov-1991	LH19	CK3BR	LT	5.70e-03	UGG
4.0	03-nov-1991	LM19	CH38R	LT	5.70e-03	UGG
10.0	03-nov-1991	LN19	CX38R	LT	5.70e-03	UGG
0.0	03-nov-1991	LM19	CH3CL	LT	8.80e-03	UGG
4.0	03-nov-1991	LM19	CH3CL	LT	8.80e-03	UGG
10.0	03-nov-1991	LH19	CH3CL	LT	8.80e-03	UGG
0.0	03-nov-1991	LH19	CHBR3	LT	6.90e-03	UGG
4.0	03-nov-1991	LM19	Схвко	LT	6.90e-03	UGG
10.0	03-nov-1991	LH19	CHBR3	LT	6.90e-03	UGG
0.0	03-nov-1991	LH19	CHCL3	LT	8.70e-04	UGG
4.0	03-nov-1991	LM19	CHCL3	LT	8.70e-04	UGG
10.0	03-nov-1991	LH19	CHCL3	LT	8.70e-04	UGG
0.0	03-nov-1991	LH19	CL28Z	MD	1.00e-01	UGG
4.0	03-nov-1991	LH19	CL2BZ	MO	1.00e-01	UGG
10.0	03-nov-1991	LH19	CL28Z	MO	1.00e-01	UGG
0.0	03-nov-1991	LH19	CLC6H5	LT	8.60e-04	UGG
4.0	03-nov-1991	LH19	CLC6H5	LT	8.60e-04	UGG
10.0	03-nov-1991	LM19	CLC6H5	LT	8.60c+04	UGG
0.0	03-nov-1991	LH19	CS2	LT	4.40e-03	UGG
4.0	03-nov-1991	LM19	CS2	LT	4.40e-03	· UGG
10.0	03-nov-1991	LH19	CS2	LT	4.40e-03	UGG
0.0	03-nov-1991	LH19	DBRCLM	LT	3.10e-03	UGG
4.0	03-nov-1991	LH19	DBRCLM	LT	3.10e-03	UGG
10.0	03-nov-1991	LM19	DBRCLM	LT	3.10e-03	UGG
0.0	03-nov-1991	LH19	ETC6H5	LT	1.70e-03	UGG
4.0	03-nov-1991	LM19	ETC6H5	LT	1.70e-03	UGG
10.0	03-nov-1991	LM19	ETC6H5	LT	1.70e-03	UGG
0.0	03-nov-1991	LH19	MECAHS	LT	7.80e-04	UGG
4.0	03-nov-1991	LH19	MEC6H5	LT	7.80e-04	UGG
10.0	03-nov-1991	LH19	MECANS	LT	7.80e-04	UGG
0.0	03-nov-1991	LH19	MEK	LT	7.00e-02	UGG
4.0	03-nov-1991	LM19	MEK	LT	7.00e-02	UGG
10.0	03-nov-1991	LH19	MEK	LT	7.00e-02	UGG
0.0	05-nov-1991	LH19	MIBK	LT	2.70-02	UGG
4.0	03-nov-1991	LH19	MIBK	LT	2.70e-02	UGG
10.0	03-nov-1991	LM19	MISK	LT	2.70=-02	UGG
0.0	03-nov-1991	LM19	MNSK	LT	3.20e-02	UGG
4.0	03-nov-1991	LM19	MNSK	LT	3.20e-02	UGG
10.0	03-nov-1991	LH19	MHSK	LT	3.20e-02	UGG
0.0	03-nov-1991	LH19	STYR	LT	2.60e-03	UGG
4.0	03-nov-1991	LM19	STYR	LT	2.60e-03	UGG
10.0	03-nov-1991	LM19	STYR	LT	2.60e-03	UGG
	03-nov-1991	LH19	1130CP	LT	2.80e-03	UGG
4.0	03-nov-1991	LM19	T130CP	LT	2.80e-03 2.80a-03	UGG
10.0	03-nov-1991	LM19	1130CP	LT	2.80e-03	UGG
	03-nov-1991	LM19	TCLEA	LT		
4.0	03-nov-1991	LM19			2.40e-03	UGG
7.0	93" NY" 77	LA 17	TCLEA	LT	2.40e-03	UGG

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Anniytical Results for Chemical Soil

From: 31-oct-91 To: 19-mar-92

					-	
SAPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••	*******	*****	******			••••
10.0	03-nov-1991	LH19	TCLEA	LT	2.40e-03	UGG
0.0	03-nov-1991	LH19	TCLEE	LT	5.10e-04	UGG
4.0	03-nov-1991	LH19	TCLEE	LT	8.10e-04	UGG
10.0	03-nov-1991	LM19	TCLEE	LT	8.10e-04	UGG
0.0	03-nov-1991	LH19	TRCLE	LT	2.80e-03	UGG
4.0	03-nov-1991	LH19	TRCLE	LT	2.80e-03	UGG
10.0	03-nov-1991	LN19	TRCLE	LT	2.80e-03	UGG
0.0	03-nov-1991	LH19	XYLEN	LT	1.50e-03	UGG
4.0	03-nov-1991	LH19	XYLEN	LT	1.50e-03	UGG
10.0	03-nov-1991	LH19	XYLEN	LT	1.50e-03	UGG
25.0	03- nov- 1991	LW12	135TNB		7.73e+00	UGG
30.0	03-nov-1991	LW12	135THB		9.30++00	UGG
45.0	04-nov-1991	LU12	135TNB		1.47e+01	UGG
50.0	04-nov-1991	LW12	135TNB		1.80e+01	UGG
10.0	03-nov-1991	LW12	135TNB		1.88e+01	UGG
8.0	03-nov-1991	LW12	135THB		2.07e+01	UGG
4.0	03-nov-1991	LW12	135TNB		2.21e+01	UGG
2.0	03-nov-1991	LW12	135TNB		2.30e+01	UGG
0.0	03-nov-1991	LW12	135TNB		2.36e+01	UGG
20.0	03-nov-1991	LW12	135TN8		2.60e+01	UGG
2.0	03-nov-1991	LW12	135THB		2.70e+01	UGG
15.0	03-nov-1991	LW12	135THB		2.70e+01	UGG
35.0	03-nov-1991	LV12	135TNB		3.00e+01	UGG
40.0	04-nov-1991	LW12	135THB		3.20e+01	UGG
6.0	03-nov-1991	LW12	135THE		3.90e+01	UGG
0.0	03-nov-1991	LW12	130NB	LT	4.96e-01	UGG
2.0	03-nov-1991	LW12	130NB	LT	4.96e-01	UGG
2.0	03-nov-1991	LW12	130NB	LT	4.96e-01	UGG
4.0	03-nov-1991	LW12	130HB	LT	4.96e-01	UGG
6.0	03-nov-1991	LW12	130NB	LT	4.9 6e -01	UGG
8.0	03-nov-1991	LW12	130NB	LT	4.9 6e -01	UGG
10.0	03-nov-1991	LW12	130NB	LT	4.964-01	UGG
15.0	03-nov-1991	LW12	130NB	LT	4.96e-01	UGG
20.0	03- nov- 1991	LW12	130NB	LT	4.96e-01	UGG
さ.0	03-nov-1991	LW12	130NB	LT	4.964-01	UGG
30.0	03-nov-1991	LW12	130NB	LT	4.96e-01	UGG
35.0	03-nov-1991	LW12	130NB	LT	4.964-01	UGG
40.0	04-nov-1991	LW12	130NB	LT	4.964-01	UGG
45.0	04-nov-1991	LW12	130NB	LT	4.964-01	UGG
50.0	04-nov-1991	LW12	130HB	LT	4.96e-01	UGG
4.0	03-nov-1991	LW12	246THT		1.11e+00	UGG
20.0	03-nov-1991	LW12	246THT		6.55e+00	UGG
25.0	03-nov-1991	LW1Z	246TNT		6.97€+00	UGG
30.0	03-nov-1991	LW12	246TNT		7.63++00	UGG
35.0	03-nov-1991	LW12	246TNT		8.62₩00	UGG
40.0	04-nov-1991	LW12	246TNT		1.32 e+ 01	UGG
15.0	03-nov-1991	LW12	246TNT		1.41++01	USG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

SAMPLE	SAMPLE	YEST				
DEPTH (ft		METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
*****	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		*******	••••		
45.0	04-nov-1991	LW12	246TNT		1.41e+01	UGG
50.0	04-nov-1991	LW12	246TNT		2.70e+01	UGG
0.0	03-nov-1991	LW12	2467NT		5.20e+02	UGG
2.0	03-nov-1991	LW12	245THT		7.80e+02	UGG
2.0	03-nov-1991	LW12	246TNT		9.80e+02	UGG
6.0	03-nov-1991	LW12	246TNT	LT	4.56e-01	UGG
8.0	03-nov-1991	LW12	246THT	LT	4.56e-01	UGG
10.0	03-nov-1991	LW12	246TNT	LT	4.564-01	UGG
6.0	03-nov-1991	LW12	24DNT		7.20e-01	UGG
30.0	03-nov-1991	LU12	24DNT		7.64e-01	UGG
35.0	03-nov-1991	LW12	240uT		1.49++00	UGG
45.0	04-nov-1991	LW12	240MT		1.70e+00	UGG
50.0	04-nov-1991	LW12	24DHT		2.47e+00	UGG
40.0	04-nov-1991	LW12	240NT		2.62++00	UGG
0.0	03-nov-1991	LW12	24DNT	LT	4.24e-01	UGG
2.0	03-nov-1991	LW12	24DNT	LT	4.24e-01	UGG
2.0	03-nov-1991	LW12	24DNT	LT	4.244-01	UGG
4.0	03-nov-1991	LU12	24DNT	LT	4.244-01	UGG
8.0	03-nov-1991	LW12	24DNT	LT	4.24e-01	UGG
10.0	03-nov-1991	LW12	240W?	LT	4.244-01	UGG
15.0	03-nov-1991	LW1Z	24DNT	LT	4.24e-01	UGG
20.0	03-nov-1991	LW1Z	240NT	LT	4.24e-01	UGG
25.0	03-nov-1991	LW12	24DNT	LT	4.24e-01	UGG
8.0	03-nov-1991	LW12	26DNT		6.86e-01	UGG
6.0	03-nov-1991	LW12	260NT		7.08e-01	UGG
15.0	03-nov-1991	F#12	26DNT		1.31++00	UGG
20.0	03-nov-1991	LW12	260NT		1,53e+00	UGG
0.0	03-nov-1991	LW12	26DNT	LT	5,24e-01	UGG
2.0	03-nov-1991	LW12 .	260NT	LT	5.24e-01	UGG
2.0	03-nov-1991	LW12	260MT	LT	5.244-01	UGG
4.0	03-nov-1991	LW12	260MT	LT	5,24e-01	UGG
10.0	03-nov-1991	LW12	260NT	ĻŢ	5.24e-01	UGG
25.0	03-nov-1991	LW12	260NT	LT	5.24e-01	UGG
30.0	03-nov-1991	LW12	260NT	LT	5.24e-01	UGG
35.0	03-nov-1991	LW12	26DNT	LT	5.24e-01	UGG
40.0	04-nov-1991	LW12	260NT	LT	5.24e-01	UGG
45.0	04-nov-1991	LW12	260NT	LT	5.24e-01	UGG
50.0	04-nov-1991	LW12	260NT	LT	5.24e-01	UGG
8.0	03-nov-1991	LW12	HPCX		2.33++00	UGG
15.0	03-nov-1991	LW12	HPCX		3.03++00	UGG
4.0	03-nov-1991	LW12	HMX		3.64++00	UGG
25.0	03-nov-1991	LW12	HMOX		5,82e+00	UGG
30.0	03-nov-1991	LW12	HMCX		7,12+00	UGG
20.0	03-nov-1991	LW12	HMX		9.35++00	UGG
45.0	04-nov-1991	LW12	HMCK		1.02e+01	UGG
35.0	03-nov-1991	1912	HMX		1.32e+01	UGG
40.0	04-nov-1991	LW12	HMOX		1.56e+01	UGG
50.0	04-nov-1991	LW12	1993		1,90+01	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mmr-97

				•		
SAMPLE	SAMPLE	TEST				
DEPTH (ft) DATE	DOKTEM	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••	*********	•••••	•••••	••••	***********	
2.0	03-nov-1991	LW12	140CC		2.70e+01	UGG
2.0	03-nov-1991	LN12	HMX		3.25++01	UGG
0.0	03-nov-1991	LW12	HIDC		4.70e+01	UGG
6.0	03-nov-1991	LU1S	HHX	LT	6.66e-01	UGG
10.0	03-nov-1991	LW12	HMEX	LT	6.664-01	UGG
0.0	03-nov-1991	LW12	NS.	LT	2.41e+00	UGG
2.0	03-nov-1991	LW12	NB	LT	2.41e+00	UGG
2.0	03-nov-1991	LW12	MB	LT	2.41++00	UGG
4.0	03-nov-1991	LW12	NB	LT	2.41++00	UGG
6.0	03-nov-1991	LW12	MB	LT	2.41++00	UGG
8.0	03-nov-1991	LW12	HB	LT	2.41++00	UGG
10.0	03-nov-1991	LW12	MB	LT	2.41++00	UGG
15.0	03-nov-1991	LW12	MB	LT	2.41e+00	UGG
20.0	03-nov-1991	LW12	N3	LT	2.41=+00	UGG
25.0	03-nov-1991	LW12	HB	LT	2.41e+00	UGG
30.0	03-nov-1991	LW12	MB	LT	2.41e+00	UGG
35.0	03-nov-1991	LW12	HB	LT	2.41e+00	UGG
40.0	04-nov-1991	LU12	NS	LT	2.41e+00	UGG
45.0	04-nov-1991	LW12	NS	LT	2.41++00	UGG
50.0	04-nov-1991	LW12	NS	LT	2.41e+00	UGG
10.0	03-nov-1991	LU12	ROX		4.76++00	UGG
50.0	04-nov-1991	LW12	ROX		5.15e+00	UGG
45.0	04-nov-1991	LW12	ROX		6,06 4+ 00	UGG
25.0	03-nov-1991	LH12	ROX		6.55e+00	UGG
8.0	03-nov-1991	LW12	ROX		8.48++00	UGG
30.0	03-nov-1991	LW12	ROX		9.00+00	UGG
15.0	03-nov-1991	LH12	ROX		1.01@+01	UGG
20.0	03-nov-1991	LW12	RDX		1.35 - 01	UGG
6.0	03-nov-1991	LW12	ROX		1.42e+01	UGG
35.0	03-nov-1991	LW12	ROX		2.31++01	UGG
40.0	04-nov-1991	LW12	RDX		3.10e+01	UGG
4.0	03-nov-1991	LW12	ROX		1.50e+02	UGG
0.0	03-nov-1991	LW12	ROX		1.40e+03	UGG
2.0	03-nov-1991	LW12	ROX		1.50e+03	UGG
2.0	03-nov-1991	LW12	RDX		1.90e+03	UGG
0.0	03-nov-1991	LU12	TETRYL	LT	7.31+-01	UGG
2.0	03-nov-1991	LU12	TETRYL	LT	7.31e-01	UGB
2.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
4.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
6.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
8.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
10.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
15.0	03-nov-1991	LU12	TETRYL	LT	7.31e-01	UGG
20.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
25.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
30.0	03-nov-1991	LV12	TETRYL	LT	7.31e-01	UGG
35.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
40.0	04-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

arres bour seasons (contribute)	Site:	BORE	S048006	(continued)
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SAMPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
*****			*******		**********	****
45.0	04-569-1991	LW1,2	TETRYL	LT	7.31e-01	UGG
50.0	04-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG

Site: BORE S048007

SAPLE	SAMPLE	TEST				
DEPTH (f		METHOD	ССИРОЦИО	BOOL	CONCENTRATION	UNITS
*****		*****	•••••	••••	**********	••••
4.0	01-nov-1991	00	ALK		5.00e+01	UGG
10.0	02-nov-1991	00	ALK		6.60 e+ 01	UGG
0.0	01-nov-1991	00	ALK	•	1.94+02	UGG
4.0	01-nov-1991	60	PH		7.87e+00	
10.0	02-nov-1991	GO .	PH		8.08e+00	
0.0	01-nov-1991	00	PH		8.35e+00	
10.0	02-nov-1991	00	TOC		2.19e+03	UGG
4.0	01-nov-1991	00	TOC		3.12e+03	UGG
0.0	01-nov-1991	00	TOC		4.88e+03	UGG
0.0	01-nov-1991	J201	HG	LT	5.00e-02	UGG
4.0	01-nov-1991	J801	HG	LT	5.00e-02	UGG
10.0	02-nov-1991	1801	HG	LT	5.00e-02	บธธ
0.0	01-nov-1991	JD15	SE	LT	2.50e-01	UGG
4.0	01-nov-1991	JD13	SE	LT	2.50e-01	UGG
10.0	02-nov-1991	JD 15	SE	LT	2.50e-01	UGG
0.0	01-nov-1991	JD17	PS		5.02e+00	UGG
4.0	01-nov-1991	J017	PS		5.82e+00	UGG
10.0	02-nov-1991	J017	PB		6.11e+00	UGG
0.0	01-nov-1991	J019	AS		2.22++00	UGG
4.0	01-nov-1991	J019	AS		2.38++00	UGG
10.0	02-nov-1991	J019	AS		2.5 9e+ 00	UGG
0.0	01-nov-1991	J\$16	AG		1.23e+00	UGG
10.0	02-nov-1991	J\$16	AG		1.51e+00	UGG
4.0	01-nov-1991	J\$16	AG		1.52e+00	UGG
0.0	01-nov-1991	JS16	AL		5.71e+03	UGG
4.0	01-nov-1991	J\$16	AL		7.60e+03	UGG
10.0	02-nov-1991	J 516	AL		8.37e+03	UGG
0.0	01-nov-1991	J\$16	BA		8.36++01	UGG
4.0	01-nov-1991	J\$16	BA		9.11e+01	UGG
10.0	02- nov- 1991	J\$16	8A		1.36+02	UGG
0.0	01-nov-1991	J\$16	8E		1.96+00	UGG
4.0	01-nov-1991	J316	\$E		2.45€+00	UGG
10.0	02-nov-1991	J\$16	38		2.48++00	UGG
4.0	1991-1900	J516	CA		1.10e+04	UGG

Analytical Results for Chemical Soil from: 31-oct-91 To: 19-mer-92

Site: BORE \$048007 (continued)

SAMPLE	SAMPLE	TEST				
DEPTH (1						
******	., DAIE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
0.0	01-nov-1991	JS16	CA		4 74 - 484	*****
10.0	02-nov-1991	1516	ä		1.31e+04	UGG
0.0	01-nov-1991	JS16	8		1.39+04	UGG
4.0	01-nov-1991	4516 612L		LT	7.00e-01	UGG
10.0	02-nov-1991	JS18	G	LT	7.00e-01	UGG
0.0	G1-nov-1991	JS16	CD	LT	7.00e-01	UGG
4.0	01-nov-1991	J\$16	ω		1.35e+01	UGG
10.0	02-nov-1991		CO		1.59e+01	UGG
0.0	01-nov-1991	J\$16	6 0		1.71e+01	UGG
10.0	02-nov-1991	J\$16	CR		8.35e+00	UGG
4.0		J\$16	CR		1.05e+01	UGG
4.0	01-nov-1991	J\$16	CR		1.13 e+ 01	UGG
	01-nov-1991	J\$16	a		1.27e+01	UGG
0.0	01-nov-1991	J316	a		1.33e+01	UGG
10.0	02-nov-1991	1216	ದು		1.71e+01	UGG
0.0	01-nov-1991	JS16	FE		2.3 9e+ 04	UGG
4.0	01-nov-1991	J\$16	FE		2.89e+04	UGG
10.0	02-nov-1991	J\$16	fE		3.10e+04	UGG
0.0	01-nov-1991	J516	K		9.51e+02	UGG
4.0	01- nov- 1991	J\$16	K		1.21e+03	UGG
10.0	02-nov-1991	J\$16	K		1.39e+03	UGG
0.0	01-nov-1991	J\$16	MG		5.19e+03	UGG
10.0	02-nov-1991	J516	MG		6.72+03	UGG
4.0	01-nov-1991	J\$16	MG		6.99e+03	UGG
0.0	01-nov-1991	JS16	HW		4.53e+02	UGG
4.0	01-nov-1991	J\$16	MIL		4.62=+02	UGG
10.0	02- nov- 1991	JS16	1900		4.86e+02	UGG
0.0	91-nov-1991	J\$16	KA		3.69+02	UGG
4.0	01-nov-1991	J\$16	MA		4.19+02	UGG
10.0	02- nov- 1991	J\$76	KA		5.10e+02	UGG
0.0	01-nov-1991	J\$16	18		8.37++00	UGG
10.0	02-nov-1991	JS16	HI.		9.89e+00	UGG
4.0	01-nov-1991	J\$16	MI		1.13e+01	UGG
0.0	01-nov-1991	J\$16	58	LT	7.14++00	UGG
4.0	01-nov-1991	J\$16	58	LT	7.14++00	UGG
10.0	02-nov-1991	J\$16	58	LT	7.14++00	UGG
4.0	01-nov-1991	J516	TL .		2.89e+01	UGG
10.0	02-nov-1991	J\$16	TL		2.95e+01	UGG
0.0	01-nov-1991	JS15	TL		3.09e+01	UGG
0.0	01-nov-1991	J316	٧		7.87e+01	UGG
4.0	01-nov-1991	JS16	٧		8.97++01	UGG
10.0	02-nov-1991	J\$16	٧		9.58++01	UGG
0.0	01-nov-1991	J\$16	ZM		5.14++01	UGG
10.0	02-nov-1991	J 3 16	231		6.22+01	UGG
4.0	01-nov-1991	J\$16	ZX		6.25e+01	UGG
9.0	01-nov-1991	KF10	NET		7.10e-01	UGG
2.0	01-nov-1991	KF10	MIT		7.50e-01	UGG
45.0	02-nov-1991	KF10	NIT		3.19e+00	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAMPLE	SAMPLE	TEST				
DEPTH (ft		METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
*****	, ont		********	••••		*****
45.0	02-nov-1991	KF10	MIT		3.77e+00	UGG
4.0	01-nov-1991	KF10	TIN		4.18e+00	UGG
8.0	02-nov-1991	KF10	NIT		9.664+00	UGG
	02-nov-1991	KF10			2.90e+01	UGG
25.0 6.0	02-nov-1991	KF10	NIT NIT		3.00e+01	UGG
30.0	02-nov-1991	KF10			3.00e+01	UGG
	02-nov-1991		NIT		• • • • • • • • • • • • • • • • • • • •	
20.0		KF10	NIT		4.50e+01	UGG
10.0 40.0	02-nov-1991	KF10	NIT		6.60 + 01	UGG
• -	02-nov-1991	KF10	NIT		6.60e+01	UGG
35.0	02-nov-1991	KF10	MIT		7.20e+01	UGG
15.0	02-nov-1991	KF10	NIT		1.00 e+ 02	UGG
0.0	01-nov-1991	LH10	ABHC	LT	9.07e-03	UGG
4.0	01-nov-1991	LH10	ABHC	LT	9.07e-03	UGG
10.0	02-nov-1991	LH10	ARHC	LT	9.07e-03	UGG
0.0	01-nov-1991	LH10	ACLDAN	MD	5.00e-03	UGG
4.0	01-nov-1991	. LH10	ACLDAN	NO	5.004-03	UGG
10.0	02-nov-1991	LH10	ACLDAN	MO	5.00e-03	UGG
0.0	01-nev-1991	LH10	AENSLF	LT	6.02e-03	UGG
4.0	01-nov-1991	LH10	AENSLF	LT	6.02e-03	UGG
10.0	02-nov-1991	LH10	AENSLF	LT	6.02e-03	UGG
0.0	01-nov-1991	LH10	ALDRN	LT	7.299-03	UGG
4.0	01-nov-1991	LH10	ALDRN	LT	7.29e-03	UGG
10.0	02-nov-1991	LH10	ALDRN	LT	7.29e-03	UGG
0.0	01-nov-1991	LH10	BONC	LT	2.57e-03	UGG
4,0	01-nov-1991	LH10	BBHC	LT	2.57e-03	UGG
10.0	02-nov-1991	LH10	BBHC	LT	2.57e-03	UGG
0.0	01-nov-1991	LH10	BENSLF	LT	6.639-03	UGG
4.0	01-nov-1991	LH10	BENSLF	LT	6.63e-03	UGG
10.0	02-nov-1991	LH10	RENSLF	LT	6.63e-03	UGG
0.0	01-nov-1991	LH10	DBHC	LT	5.550-03	UGG
4.0	01-nov-1991	LH10	DBHC	LT	5.55e-03	UGG
10.9	02-nov-1991	LH10	DRHC	LT	5.55e-03	UGG
0.0	01-nov-1991	LH10	DLDRN	LT	6.29e-03	UGG
4.0	01-nov-1991	LH10	DLDRN	LT	6.29e-03	UGG
10.0	02-nov-1991	LH10	DLDRM	LT	6.290-03	UGG
0.0	01-nov-1991	LH10	ENDRN	LT	6.57e-03	UGG
4.0	01-nov-1991	LH10	ENDRY	LT	6.57e-03	UGG
10.0	02-nov-1991	LH10	ENDRN	LT	6.57e-03	UGG
0.0	01-nov-1991	LH10	EMORNA	LT	2.40a-02	UGG
4.0	01-nov-1991	LH10	EMDRNA	LT	2.40e-02	UGG
10.0	02-nov-1991	LH10	ENDRNA	LT	2.40e-02	UGG
0.0	01-nov-1991	LH10	ENDRINK	MD	2.40e-02	UGG
4.0	01-nov-1991	LH10	ENDRUK	NO.	2.40e-02	UGG
10.0	02-nov-1991	LH10	ENDRNK	ND ND	2.40e-02	
0.0	02-nov-1991	LH10	ESFSO4	LT	7.63e-03	UGG
4.0	01-nov-1991	LH10				UGG
-			ESFSO4	l.T	7.63e-03	UGG
10.0	02-nov-1991	LH10	ESFS04	LT	7.63e-03	UGG

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Anal ical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

Site: BORE \$048007 (continued)

SAMPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••	•••••	•••••		••••	**********	••••
0.0	01-nov-1991	LH10	GCLDAM	MO	5.00e-03	UGG
4.0	01-nov-1991	LH10	GCLDAN	NO	5.00e-03	UGG
10.0	02-nov-1991	LH10	SCLDAN	MD	5.00e-03	UGG
0.0	01-nov-1991	LH10	KPCL	LT	6.18e-03	UGG
4.0	01- nov- 1991	LH10	HPCL	1.7	6.184-03	UGG
10.0	02-nov-1991	LH10	HPCL	L7	6.18e-03	UGG
0.0	01-nov-1991	LH10	HPCLE	LT	6.20e-03	UGG
4.0	01-nov-1991	LH10	HPCLE	LT	6.20e-03	UGG
10.0	02-nov-1991	LH10	HPCLE	LT	6.20e-03	UGG
0.0	01-nov-1991	LH10	ISODR	LT	4.61e-03	UGG
4.0	01-nov-1991	LH10	150DR	LT	4.61e-03	UGG
10.0	02-nov-1991	LH10	ISODR	LT	4.61e-03	UGG
0.0	01-nov-1991	LH10	LIN	LT	6.38e-03	UGG
4.0	01-nov-1991	LH10	LIM	LT	6.38e-03	UGG
10.0	02-nov-1991	LH10	LIM	LT	6.38e-03	UGG
0.0	01-nov-1991	LH10	MEXCLR	LT	7.11e-02	UGG
4.0	01-nov-1991	LH10	MEXCLR	LT	7.11e-02	UGG
10.0	02-nov-1791	LH10	MEXCLR	LT	7.11e-02	UGG
0.0	01-nov-1991	LH10	PP000	LT	8.2603	UGG
4.0	01-nov-1991	LH10	PP000	LT	8.26e-03	UGG
10.0	02-nov-1991	LH10	PPOOD	LT	8.26e-03	UGG
0.0	01-nov-1991	LH10	PPOOE	LT	7.65e-03	UGG
4.0	01-nov-1991	LH10	PPODE	LT	7.65e-03	UGG
10.0	02-nov-1991	LH10	PPODE	LT	7.654-03	UGG
0.0	01-nov-1991	LH10	PPDOT	LT	7.07e-03	UGG
4.0	01-nov-1991	LH10	PPDOT	LT	7.079-03	UGG
10.0	02-nov-1991	LH10	PPOUT	LT	7.07e-03	UGG
0.0	01-nov-1991	LH10	TXPHEN	LT	4.44-01	UGG
4.0	01-nov-1991	LH10	TXPHEN	LT	4.44e-01	UGG
10.0	02-nov-1991	LH10	TXPHEN	LT	4.44e-01	UGG
0.0	01-nov-1991	LH16	PCB016	LT	6.66e-02	UGG
4.0	01-nov-1991	LH16	PCB016	LT	6.564-02	UGG
10.0	02-nov-1991	LH16	PC8016	LT	6.66e-02	UGG
0.0	01-nov-1991	LH16	PC8221	MO	3.20e-02	UGG
4.0	01-nov-1991	LK16	PCB221	MD	8.20e-02	UGG
10.0	02-nov-1991	LH16	PC8221	MO	8.20e-02	UGG
0.0	01-nov-1991	LH16	PC8232	MD	8.20e-02	UGG
4.0	01-nov-1991	LH16	PC8232	NO	8.20e-02	UGG
10.0	02-nov-1991	LH16	PC8232	NO	8.20e-02	UGG
0.0	01 -nov-1991	LH16	PCB242	MO	8.2002	UGG
4.0	01-nov-1991	LH16	PC8242	ND	8.200-02	UGG
10.0	02-nov-1991	LH16	PCB242	MO	8.20e-02	UGG
0.0	01-nov-1991	LH16	PC8248	NO	8.20e-02	UGG
4.0	01-nov-1991	LH16	PC8248	MO	8.20e-02	UGG
10.0	02-nov-1991	LH15	PC8248	NO	8.20e-02	UGG
0.0	01-nov-1991	LH16	PC8254	NO	8.209-02	UGG
4.0	01-nov-1991	LH16	PC8254	MO	8.20e-02	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

10.0 02-nov-1991 LH16 PCB254 M0 8.20e-02 UCG 0.0 01-nov-1991 LH16 PCB260 LT 8.04e-02 UCG 4.0 01-nov-1991 LH16 PCB260 LT 8.04e-02 UCG 10.0 02-nov-1991 LH16 PCB260 LT 8.04e-02 UCG 10.0 01-nov-1991 LH18 124TCB LT 4.00e-02 UCG 0.0 01-nov-1991 LH18 124TCB LT 4.00e-02 UCG 0.0 01-nov-1991 LH18 124TCB LT 4.00e-02 UCG 0.0 01-nov-1991 LH18 12CLB LT 1.10e-01 UCG 10.0 02-nov-1991 LH18 12CLB LT 1.10e-01 UCG 10.0 01-nov-1991 LH18 12CLB LT 1.10e-01 UCG 10.0 01-nov-1991 LH18 12CLB LT 1.10e-01 UCG 10.0 01-nov-1991 LH18 12CLB LT 1.0e-01 UCG 10.0 01-nov-1991 LH18 12CDH M0 1.40e-01 UCG 10.0 01-nov-1991 LH18 12CLB LT 1.30e-01 UCG 10.0 01-nov-1991 LH18 12CLB LT 9.80e-02 UCG 10.0 01-nov-1991 LH18 13CLB LT 9.80e-02 UCG 10.0 01-nov-1991 LH18 14CLB LT 9.80e-02 UCG 10.0 01-nov-1991 LH18 14CLB LT 9.80e-02 UCG 10.0 01-nov-1991 LH18 24STCP LT 1.00e-01 UCG 10.0 02-nov-1991 LH18 24STCP LT 1.00e-01 UCG 10.0 01-nov-1991 LH18 24STCP LT 1.00e-01 UCG	SAMPLE	SAMPLE	TEST				
10.0 02-nov-1991 LN16 PCB254 NO 8.20e-02 UG 0.0 01-nov-1991 LN16 PCB260 LT 8.04e-02 UG 0.0 02-nov-1991 LN16 PCB260 LT 8.04e-02 UG 10.0 02-nov-1991 LN16 PCB260 LT 8.04e-02 UG 10.0 01-nov-1991 LN16 PCB260 LT 8.04e-02 UG 0.0 01-nov-1991 LN18 124TCB LT 4.00e-02 UG 10.0 02-nov-1991 LN18 124TCB LT 4.00e-02 UG 10.0 02-nov-1991 LN18 126TCB LT 1.10e-01 UG 10.0 01-nov-1991 LN18 12CLB LT 1.10e-01 UG 10.0 01-nov-1991 LN18 12CLB LT 1.10e-01 UG 10.0 02-nov-1991 LN18 12CLB LT 1.10e-01 UG 10.0 02-nov-1991 LN18 12CDLB LT 1.10e-01 UG 10.0 01-nov-1991 LN18 12CDLB LT 1.10e-01 UG 10.0 02-nov-1991 LN18 12CDN NO 1.40e-01 UG 10.0 01-nov-1991 LN18 12CLB LT 1.30e-01 UG 10.0 02-nov-1991 LN18 13CLB LT 1.30e-01 UG 10.0 02-nov-1991 LN18 13CLB LT 1.30e-01 UG 10.0 02-nov-1991 LN18 14CLB LT 9.80e-02 UG 10.0 01-nov-1991 LN18 24STCP LT 1.00e-01 UG 1	DEPTH (ft) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
0.0 01-nov-1991 LN16 PCB260 LT 8.04e-02 UG 4.0 01-nov-1991 LN16 PCB260 LT 8.04e-02 UG 10.0 02-nov-1991 LN16 PCB260 LT 8.04e-02 UG 0.0 01-nov-1991 LN18 124TCB LT 4.00e-02 UG 10.0 02-nov-1991 LN18 124TCB LT 4.00e-02 UG 10.0 02-nov-1991 LN18 12CLB LT 1.10e-01 UG 10.0 02-nov-1991 LN18 12CLB LT 1.10e-01 UG 10.0 02-nov-1991 LN18 12CLB LT 1.10e-01 UG 10.0 02-nov-1991 LN18 12CDLB LT 1.10e-01 UG 10.0 02-nov-1991 LN18 12CDLB LT 1.10e-01 UG 10.0 02-nov-1991 LN18 12CDLB LT 1.0e-01 UG 10.0 02-nov-1991 LN18 12CDLB LT 1.0e-01 UG 10.0 02-nov-1991 LN18 12CDLB LT 1.30e-01 UG 4.0 01-nov-1991 LN18 13CLB LT 1.30e-01 UG 4.0 01-nov-1991 LN18 14CLB LT 9.80e-02 UG 0.0 01-nov-1991 LN18 14CLB LT 9.80e-02 UG 0.0 01-nov-1991 LN18 14CLB LT 9.80e-02 UG 0.0 01-nov-1991 LN18 24STCP LT 1.00e-01 UG 4.0 01-nov-1991 LN18 24STCP LT 1.00e-01 UG 0.0 01-nov-1991 LN18 24STCP LT 1.00e-01 UG 4.0 01-nov-1991 LN18 24STCP LT 1.00e-01 UG 0.0 01-nov-1991 LN18 24STCP LT 1.80e-01 UG 0.0 01-nov-1991 LN18 24STCP	*****	•••••		******			
4.0 01-nov-1991 LN16 PCB260 LT 8.04e-02 UG 10.0 02-nov-1991 LN16 PCB260 LT 8.04e-02 UG 0.0 01-nov-1991 LN18 124TCB LT 4.00e-02 UG 4.0 01-nov-1991 LN18 124TCB LT 4.00e-02 UG 10.0 02-nov-1991 LN18 124TCB LT 1.10e-01 UG 4.0 01-nov-1991 LN18 12CCLB LT 1.10e-01 UG 4.0 01-nov-1991 LN18 12DCLB LT 1.10e-01 UG 4.0 01-nov-1991 LN18 12DCLB LT 1.10e-01 UG 0.0 01-nov-1991 LN18 12DPN ND 1.40e-01 UG 4.0 01-nov-1991 LN18 13DCLB LT 1.30e-01 UG 4.0 01-nov-1991 LN18 14DCLB LT 9.80e-02 UG 4.0 01-nov-1991 LN18 14DCLB LT 9.80e-02 UG 4.0 01-nov-1991 LN18 245TCP LT 1.00e-01 UG 4.0 01-nov-1991 LN18 240TCP LT 1.70e-01 UG 4.0 01-nov-1991 LN18 240TCP LT 1.80e-01 UG 4.0 01-nov-1991 LN18 240TC	10.0	02-nov-1991	LH16	PCB254	NO	8.20e-02	UGG
10.0 02-nov-1991 LN16 PCS260 LT 8.04e-02 UC 0.0 01-nov-1991 LN18 124TCB LT 4.00e-02 UC 4.0 01-nov-1991 LN18 124TCB LT 4.00e-02 UC 10.0 02-nov-1991 LN18 124TCB LT 4.00e-02 UC 0.0 01-nov-1991 LN18 120CLB LT 1.10e-01 UC 4.0 01-nov-1991 LN18 120CLB LT 1.10e-01 UC 10.0 02-nov-1991 LN18 120CLB LT 1.10e-01 UC 10.0 02-nov-1991 LN18 120CLB LT 1.10e-01 UC 0.0 01-nov-1991 LN18 120CNB LT 1.10e-01 UC 10.0 02-nov-1991 LN18 120PN ND 1.40e-01 UC 4.0 01-nov-1991 LN18 120PN ND 1.40e-01 UC 4.0 01-nov-1991 LN18 120PN ND 1.40e-01 UC 4.0 01-nov-1991 LN18 120CLB LT 1.30e-01 UC 4.0 01-nov-1991 LN18 130CLB LT 1.30e-01 UC 4.0 01-nov-1991 LN18 140CLB LT 9.80e-02 UC 4.0 01-nov-1991 LN18 140CLB LT 9.80e-02 UC 4.0 01-nov-1991 LN18 140CLB LT 9.80e-02 UC 4.0 01-nov-1991 LN18 245TCP LT 1.00e-01 UC 4.0 01-nov-1991 LN18 245TCP LT 1.00e-01 UC 4.0 01-nov-1991 LN18 245TCP LT 1.00e-01 UC 4.0 01-nov-1991 LN18 246TCP LT 1.70e-01 UC 0.0 01-nov-1991 LN18 246TCP LT 1.70e-01 UC 0.0 01-nov-1991 LN18 246TCP LT 1.70e-01 UC 4.0 01-nov-1991 LN18 246TCP LT 1.70e-01 UC 0.0 01-nov-1991 LN18 240CLP LT 1.80e-01 UC 4.0 01-nov-1991 LN18 240NP LT 6.90e-01 UC 0.0 01-nov-1991 LN18 240NP LT 1.20e+00 UC 0.0 01-nov-1991 LN18 240NP LT 1.20e+00 UC 0.0 01-nov-1991 LN18 240NP LT 1.20e+00 UC 0.0 01-nov-1991 LN18 240NP LT 1.80e-01 UC 4.0 01-nov-1991 LN18 240NP LT 1.	0.0	01-nov-1991	LH16	PC8260	LT	8.04e-02	UGG
10.0 02-nov-1991 LM18 124TCB LT 4.00e-02 UG 4.0 01-nov-1991 LM18 124TCB LT 4.00e-02 UG 10.0 02-nov-1991 LM18 124TCB LT 4.00e-02 UG 10.0 02-nov-1991 LM18 124TCB LT 4.00e-02 UG 0.0 01-nov-1991 LM18 120CLB LT 1.10e-01 UG 4.0 01-nov-1991 LM18 120CLB LT 1.10e-01 UG 10.0 02-nov-1991 LM18 120CLB LT 1.10e-01 UG 10.0 02-nov-1991 LM18 120CLB LT 1.10e-01 UG 10.0 01-nov-1991 LM18 120PM MD 1.40e-01 UG 10.0 02-nov-1991 LM18 120PM MD 1.40e-01 UG 10.0 02-nov-1991 LM18 120PM MD 1.40e-01 UG 10.0 02-nov-1991 LM18 120PM MD 1.40e-01 UG 10.0 01-nov-1991 LM18 120PM MD 1.40e-01 UG 10.0 01-nov-1991 LM18 120CLB LT 1.30e-01 UG 10.0 01-nov-1991 LM18 130CLB LT 1.30e-01 UG 10.0 01-nov-1991 LM18 130CLB LT 1.30e-01 UG 10.0 02-nov-1991 LM18 130CLB LT 1.30e-01 UG 10.0 02-nov-1991 LM18 140CLB LT 9.80e-02 UG 0.0 01-nov-1991 LM18 140CLB LT 9.80e-02 UG 0.0 01-nov-1991 LM18 140CLB LT 9.80e-02 UG 0.0 01-nov-1991 LM18 245TCP LT 1.00e-01 UG 10.0 02-nov-1991 LM18 245TCP LT 1.00e-01 UG 10.0 01-nov-1991 LM18 246TCP LT 1.70e-01 UG 10.0 01-nov-1991 LM18 246TCP LT 1.70e-01 UG 10.0 01-nov-1991 LM18 240TCP LT 1.30e-01 UG 10.0 01-nov-1991 LM18 240TCP LT 1	4.0	01-nov-1991	LH16	PC8260	LT	8.04e-02	UGG
4.0 01-nov-1991 LH18 124TCB LT 4.00e-02 UG 0.0 02-nov-1991 LH18 12DCLB LT 1.10e-01 UG 4.0 01-nov-1991 LH18 12DCLB LT 1.10e-01 UG 4.0 01-nov-1991 LH18 12DCLB LT 1.10e-01 UG 0.0 01-nov-1991 LH18 12DCLB LT 1.10e-01 UG 0.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 4.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 4.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 4.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 0.0 02-nov-1991 LH18 12DPH ND 1.40e-01 UG 0.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 0.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 0.0 01-nov-1991 LH18 13DCLB LT 1.30e-01 UG 0.0 01-nov-1991 LH18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LH18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LH18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LH18 245TCP LT 1.00e-01 UG 0.0 01-nov-1991 LH18 240TCP LT 1.70e-01 UG 0.0 01-nov-1991 LH18 240TCP LT 1.80e-01 UG 0.0 01-nov-1991 LH18 240TCP LT 1	10.0	02-nov-1991	LH16	PC8260	LT		UGG
4.0 01-nov-1991 LH18 124TCB LT 4.00e-02 UG 0.0 02-nov-1991 LH18 12DCLB LT 1.10e-01 UG 4.0 01-nov-1991 LH18 12DCLB LT 1.10e-01 UG 4.0 01-nov-1991 LH18 12DCLB LT 1.10e-01 UG 0.0 01-nov-1991 LH18 12DCLB LT 1.10e-01 UG 0.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 4.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 4.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 4.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 0.0 02-nov-1991 LH18 12DPH ND 1.40e-01 UG 0.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 0.0 01-nov-1991 LH18 12DPH ND 1.40e-01 UG 0.0 01-nov-1991 LH18 13DCLB LT 1.30e-01 UG 0.0 01-nov-1991 LH18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LH18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LH18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LH18 245TCP LT 1.00e-01 UG 0.0 01-nov-1991 LH18 240TCP LT 1.70e-01 UG 0.0 01-nov-1991 LH18 240TCP LT 1.80e-01 UG 0.0 01-nov-1991 LH18 240TCP LT 1		04 1004	1 44 6	424.000			
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4.0 01-nov-1991 LM18 12DCLB LT 1.10e-01 UG 10.0 02-nov-1991 LM18 12DCLB LT 1.10e-01 UG 4.0 01-nov-1991 LM18 12DPH MD 1.40e-01 UG 6.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 6.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 6.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 6.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 6.0 01-nov-1991 LM18 24STCP LT 1.00e-01 UG 6.0 01-nov-1991 LM18 24STCP LT 1.70e-01 UG 6.0 01-nov-1991 LM18 24GTCP LT					-		UGG
10.0 02-nov-1991 LM18 12DCLB LT 1.10e-01 UG 0.0 01-nov-1991 LM18 12DPH ND 1.40e-01 UG 4.0 01-nov-1991 LM18 12DPH ND 1.40e-01 UG 6.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 6.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 6.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 6.0 01-nov-1991 LM18 13DCLB LT 9.80e-02 UG 6.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 6.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 6.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 6.0 01-nov-1991 LM18 245TCP LT 1.00e-01 UG 6.0 01-nov-1991 LM18 245TCP LT 1.00e-01 UG 6.0 01-nov-1991 LM18 245TCP LT 1.00e-01 UG 6.0 01-nov-1991 LM18 245TCP LT 1.70e-01 UG 6.0 01-nov-1991 LM18 246TCP LT 1.70e-01 UG 6.0 01-nov-1991 LM18 246TCP LT 1.70e-01 UG 6.0 01-nov-1991 LM18 240TCP LT 1.70e-00 UG 6.0 01-nov-1991 LM18 240TC LT 1.70e-01 UG 6.0 01-nov-1991 LM18 240TC LT 1.70e-01 UG 6.0 01-nov-1991 LM18 240TCP LT 1.70e-00 UG 6.0 01-nov-1991 LM18 240TCP LT 1.70e-00 UG 6.0 01-nov-1991 LM18 240TCP LT 1.70e-00 UG 6.0 01-nov-1991 LM18 240TCP LT 6.00e-02 UG 6.0 01-nov-1991 LM18 240TCP LT 6.00e-02 UG 6.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UG 6.0 01-nov-1991 LM18 2CLP LT 6.00			_				UGG
0.0 01-nov-1991 LM18 12DPH ND 1.40e-01 UG 4.0 01-nov-1991 LM18 12DPH ND 1.40e-01 UG 0.0 02-nov-1991 LM18 12DPH ND 1.40e-01 UG 0.0 01-nov-1991 LM18 12DPH ND 1.40e-01 UG 0.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 0.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LM18 24STCP LT 1.00e-01 UG 0.0 01-nov-1991 LM18 24STCP LT 1.70e-01 UG 0.0 01-nov-1991 LM18 24STCP LT 1.70e-01 UG 0.0 01-nov-1991 LM18 24GTCP LT 1.70e-01 UG 0.0 01-nov-1991 LM18 24DCLP LT 1.80e-01 UG 0.0 01-nov-1991 LM18 24DWP LT 1.20e+00 UG 0.0 01-nov-1991 LM18 24DWT LT 1.40e-01 UG 0.0 01-nov-1							UGG
4.0 01-nov-1991 LM18 12DPH ND 1.40e-01 UG 4.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 4.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 0.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 0.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 4.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 4.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LM18 245TCP LT 1.00e-01 UG 4.0 01-nov-1991 LM18 245TCP LT 1.00e-01 UG 10.0 02-nov-1991 LM18 245TCP LT 1.00e-01 UG 10.0 02-nov-1991 LM18 245TCP LT 1.70e-01 UG 10.0 01-nov-1991 LM18 245TCP LT 1.70e-01 UG 10.0 01-nov-1991 LM18 246TCP LT 1.70e-01 UG 10.0 01-nov-1991 LM18 246TCP LT 1.70e-01 UG 10.0 01-nov-1991 LM18 240TCP LT 1.80e-01 UG 10.0 01-nov-1991 LM18 240TCP LT 1.80e-0							UGG
10.0 02-nov-1991 LN18 12DPN ND 1.40e-01 UG 4.0 01-nov-1991 LN18 12DPN ND 1.40e-01 UG 0.0 01-nov-1991 LN18 13DCL8 LT 1.30e-01 UG 10.0 02-nov-1991 LN18 13DCL8 LT 1.30e-01 UG 10.0 02-nov-1991 LN18 13DCL8 LT 1.30e-01 UG 10.0 01-nov-1991 LN18 13DCL8 LT 1.30e-02 UG 10.0 01-nov-1991 LN18 14DCL8 LT 9.80e-02 UG 10.0 01-nov-1991 LN18 14DCL8 LT 9.80e-02 UG 10.0 02-nov-1991 LN18 14DCL8 LT 9.80e-02 UG 10.0 01-nov-1991 LN18 245TCP LT 1.00e-01 UG 10.0 02-nov-1991 LN18 245TCP LT 1.00e-01 UG 10.0 02-nov-1991 LN18 245TCP LT 1.00e-01 UG 10.0 01-nov-1991 LN18 245TCP LT 1.70e-01 UG 10.0 01-nov-1991 LN18 246TCP LT 1.70e-01 UG 10.0 02-nov-1991 LN18 246TCP LT 1.70e-01 UG 10.0 02-nov-1991 LN18 246TCP LT 1.70e-01 UG 10.0 02-nov-1991 LN18 240CLP LT 1.80e-01 UG 10.0 01-nov-1991 LN18 240CLP LT 1.80e-01 UG 10.0 02-nov-1991 LN18 240CLP LT 1.80e-01 UG 10.0 01-nov-1991 LN18 240MPN LT 6.90e-01 UG 10.0 01-nov-1991 LN18 240MPN LT 6.90e-01 UG 10.0 02-nov-1991 LN18 240MPN LT 6.90e-01 UG 10.0 02-nov-1991 LN18 240MPN LT 1.20e+00 UG 10.0 01-nov-1991 LN18 240MPN LT 1.20e+00 UG 10.0 01-nov-1991 LN18 240MP LT 1.20e+00 UG 10.0 01-nov-1991 LN18 240MP LT 1.20e+00 UG 10.0 01-nov-1991 LN18 240MT LT 1.40e-01 UG							UGG
4.0 01-nov-1991 LM18 12EPCH 3.64e-01 UG 0.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 4.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 10.0 02-nov-1991 LM18 13DCLB LT 1.30e-01 UG 4.0 01-nov-1991 LM18 13DCLB LT 1.30e-01 UG 4.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 4.0 01-nov-1991 LM18 14DCLB LT 9.80e-02 UG 10.0 02-nov-1991 LM18 14DCLB LT 9.80e-02 UG 0.0 01-nov-1991 LM18 245TCP LT 1.00e-01 UG 4.0 01-nov-1991 LM18 245TCP LT 1.00e-01 UG 10.0 02-nov-1991 LM18 245TCP LT 1.00e-01 UG 4.0 01-nov-1991 LM18 245TCP LT 1.70e-01 UG 4.0 01-nov-1991 LM18 245TCP LT 1.70e-01 UG 4.0 01-nov-1991 LM18 246TCP LT 1.70e-01 UG 4.0 01-nov-1991 LM18 246TCP LT 1.70e-01 UG 10.0 02-nov-1991 LM18 246TCP LT 1.80e-01 UG 10.0 02-nov-1991 LM18 240CLP LT 1.80e-01 UG 10.0 01-nov-1991 LM18 240CLP LT 1.80e-01 UG 4.0 01-nov-1991 LM18 240CLP LT 1.80e-01 UG 4.0 01-nov-1991 LM18 240CLP LT 1.80e-01 UG 10.0 02-nov-1991 LM18 240MPN LT 6.90e-01 UG 4.0 01-nov-1991 LM18 240MPN LT 6.90e-01 UG 4.0 01-nov-1991 LM18 240MPN LT 6.90e-01 UG 6.0 01-nov-1991 LM18 240MPN LT 6.90e-01 UG 6.0 01-nov-1991 LM18 240MPN LT 6.90e-01 UG 6.0 01-nov-1991 LM18 240MPN LT 1.20e+00 UG 6.0 01-nov-1991 LM18 240MP LT 1.40e-01 UG							UGG
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4.0 01-nov-1991 LH18 240MPM LT 6.90e-01 UGG 10.0 02-nov-1991 LH18 240MPM LT 6.90e-01 UGG 0.0 01-nov-1991 LH18 240MP LT 1.20e+00 UGG 4.0 01-nov-1991 LH18 240MP LT 1.20e+00 UGG 10.0 02-nov-1991 LH18 240MP LT 1.20e+00 UGG 10.0 02-nov-1991 LH18 240MP LT 1.20e+00 UGG 0.0 01-nov-1991 LH18 240MT LT 1.40e-01 UGG 0.0 01-nov-1991 LH18 240MT LT 1.40e-01 UGG 4.0 01-nov-1991 LH18 240MT LT 1.40e-01 UGG 0.0 01-nov-1991 LH18 240MT LT 1.40e-01 UGG 0.0 01-nov-1991 LH18 250MT LT 8.50e-02 UGG 4.0 01-nov-1991 LH18 250MT LT 8.50e-02 UGG 4.0 01-nov-1991 LH18 250MT LT 8.50e-02 UGG 0.0 01-nov-1991 LH18 250MT LT 8.50e-02 UGG 0.0 01-nov-1991 LH18 2CLP LT 6.00e-02 UGG						1.80e-01	UGG
10.0 02-nov-1991 LM18 240MPM LT 6.90e-01 UGG 0.0 01-nov-1991 LM18 240MP LT 1.20e+00 UGG 4.0 01-nov-1991 LM18 240MP LT 1.20e+00 UGG 10.0 02-nov-1991 LM18 240MP LT 1.20e+00 UGG 10.0 02-nov-1991 LM18 240MT LT 1.20e+00 UGG 0.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 4.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 6.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 6.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 6.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 6.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG					_	6.90e-01	UGG
0.0 01-nov-1991 LM18 240MP LT 1.20e+00 UGG 4.0 01-nov-1991 LM18 240MP LT 1.20e+00 UGG 10.0 02-nov-1991 LM18 240MP LT 1.20e+00 UGG 10.0 02-nov-1991 LM18 240MT LT 1.20e+00 UGG 0.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 4.0 01-now-1991 LM18 240MT LT 1.40e-01 UGG 0.0 01-now-1991 LM18 240MT LT 1.40e-01 UGG 0.0 01-now-1991 LM18 240MT LT 1.40e-01 UGG 0.0 01-now-1991 LM18 260MT LT 8.50e-02 UGG 4.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 10.7 02-nov-1991 LM18 260MT LT 8.50e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 4.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG						6.90e-01	UGG
4.0 01-nov-1991 LM18 240MP LT 1.20e+00 UGG 10.0 02-nov-1991 LM18 240MP LT 1.20e+00 UGG 10.0 02-nov-1991 LM18 240MT LT 1.3e+00 UGG 0.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 4.0 01-now-1991 LM18 240MT LT 1.40e-01 UGG 0.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 0.0 01-nov-1991 LM18 240MT LT 8.50e-02 UGG 4.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 10.7 02-nov-1991 LM18 260MT LT 8.50e-02 UGG 0.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 10.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 10.0 02-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG						6.90e-01	UGG
10.0 02-nov-1991 LM18 240MP LT 1.20e+00 UGG 10.0 02-nov-1991 LM18 240MT 1.13e+00 UGG 0.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 4.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 0.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 0.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 4.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 10.7 02-nov-1991 LM18 260MT LT 8.50e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 4.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 10.0 02-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG					LT	1.20++00	UGG
10.0 02-nov-1991 LM18 240MT 1.13e+00 UGG 0.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 4.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 0.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 0.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 4.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 10.7 02-nov-1991 LM18 260MT LT 8.50e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 4.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 10.0 02-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG					LT	1.20 e+ 00	UGG
0.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 4.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 0.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 4.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 10.7 02-nov-1991 LM18 260MT LT 8.50e-02 UGG 0.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 4.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 10.0 02-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG					LT	1.20 e+ 00	UGG
4.0 01-nov-1991 LM18 240MT LT 1.40e-01 UGG 0.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 4.0 01-nov-1991 LM18 260MT LT 8.50e-02 UGG 10.7 02-nov-1991 LM18 260MT LT 8.50e-02 UGG 0.0 01-nov-1991 LM18 20LP LT 6.00e-02 UGG 4.0 01-nov-1991 LM18 20LP LT 6.00e-02 UGG 10.0 02-nov-1991 LM18 20LP LT 6.00e-02 UGG 10.0 02-nov-1991 LM18 20LP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 20LP LT 6.00e-02 UGG				24DNT		1.13e+00	UGG
0.0 01-nov-1991 LM18 260NT LT 8.50e-02 UGG 4.0 01-nov-1991 LM18 260NT LT 8.50e-02 UGG 10.7 02-nov-1991 LM18 260NT LT 8.50e-02 UGG 0.0 01-nov-1991 LM18 20LP LT 6.00e-02 UGG 4.0 01-nov-1991 LM18 20LP LT 6.00e-02 UGG 10.0 02-nov-1991 LM18 20LP LT 6.00e-02 UGG 10.0 01-nov-1991 LM18 20LP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 20LP LT 6.00e-02 UGG				240NT	LT	1.40e-01	UGG
4.0 01-nov-1991 LM18 260NT LT 8.50e-02 UGG 10.7 02-nov-1991 LM18 260NT LT 8.50e-02 UGG 0.0 01-nov-1991 LM18 20LP LT 6.00e-02 UGG 4.0 01-nov-1991 LM18 20LP LT 6.00e-02 UGG 10.0 02-nov-1991 LM18 20LP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 20LP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 20LP LT 3.60e-02 UGG			LM18	240NT	LT	1.40e-01	UGG
10.7 02-nov-1991 LM18 260NT LT 8.50e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 4.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 10.0 02-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CKAP LT 3.60e-02 UGG		01-nov-1991	LM18	26DNT	LT	8.50e-02	UGG
0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 4.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 10.0 02-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG			LM18	260NT	LT	8.50e-02	UGG
4.0 01-nov-1991 LM18 2CLP LT 6.00e-02 UGG 10.0 02-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CLP LT 3.60e-02 UGG				260NT	LT	8.50e-02	UGG
10.0 02-nov-1991 LM18 2CLP LT 6.00e-02 UGG 0.0 01-nov-1991 LM18 2CKAP LT 3.60e-02 UGG		01-nov-1991	LH18	ZCLP	LT	6.004-02	UGG
0.0 01-nov-1991 LM18 2CKAP LT 3.60e-02 UGG		01-nov-1991	LM18	2CLP	LT	6.00e-02	UGG
		02-nov-1991	LM18	SCFb	LT	6.00e-02	UGG
4.0 01-nov-1991 (M18 20MAD) T 2.40-40		01-nov-1991	LH18	25,49	LT	3.60e-02	UGG
21004.05 DM	4.0	01-nov-1991	LH18	2CNAP	LT	3.60e-02	UGG
10.0 02-nov-1991 LM18 2CMAP LT .3.60e-02 UGG	10.0	02-nov-1991	LM18	2CNAP	LT	.3.60e-02	UGG

Installation: Umatilla AD
Analytical Results for Chemical Soil
From: 31-oct-91 To: 19-mar-92

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SAMPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	COMPOUND	RCCL	CONCENTRATION	UNITS
*****	•••••	•••••	******	••••	**********	****
0.0	01-nov-1991	LN18	ZHHAP	LT	4.90e-02	UGG
4.0	01-nov-1991	LH18	2MMAP	LT	4.90e-02	UGG
10.0	02-nov-1991	LH18	ZMNAP	LT	4.90e-02	UGG
0.0	01-nov-1991	LH18	2119	LT	2.90e-02	UGG
4.0	01-nov-1991	LN18	24	LT	2.90e-02	UCG
10.0	02-nov-1991	LH18	249	LT	2.90e-02	UGG
0.0	01-nov-1991	LH18	2NAN1L	LT	6.20e-02	UGG
4.0	01-nov-1991	LH18	2NAN I L	LT	6.20e-02	UGG
10.0	02-nov-1991	LH18	2MANIL	LT	6.20e-02	UGG
0.0	1991-טער 1991	LH18	2NP	LT	1.40e-01	UGG
4.0	01-nov-1991	LH18	2NP	LT	1.40e-01	UGG
10.0	02-nov-1991	LM18	2NP	LT	1.40e-01	UEG
0.0	01-nov-1991	LH18	330CB0	LT	6.30e+00	UGG
4.0	01-nov-1991	LK15	330 CBO	LT	6.30e+00	UGG
10.0	02-nov-1991	LH18	330C80	LT	6.30e+00	UGG
0.0	01-nov-1991	LH18	3NANIL	LT	4.50e-01	UGG
4.0	01-nov-1991	LH18	SHANIL	LT	4.50e-01	UGG
10.0	02-nov-1991	LM18	SHAHIL	LT	4.50e-01	UGG
0.0	01-nov-1991	LN18	460N2C	LT	5.50e-01	UGG
4.0	01-nov-1991	LH18	460N2C	LT	5.50e-01	UGG
10.0	02-nov-1991	LH18	460N2C	LT	5.50e-01	UGG
0.0	01-nov-1991	'LM18	48RPPE	LT	3.30e-02	UGG
4.0	01-nov-1991	LH18	48RPPE	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	48RPPE	LT	3.30e-02	220
0.0	01-nov-1991	LM18	4CANIL	LT	8.10e-01	UGS
4.0	01-nov-1991	LH18	4CANIL	LT	8.10e-01	UGG
10.0	02-nov-1991	LH18	4CANIL	LT	8.10e-01	UGG
0.0	01-nov-1991	LH18	4CL3C	LT	9.50-02	UGG
4.0	01-nov-1991	LH18	4CL3C	LT	9.50e-02	ucc
10.0	02-nov-1991	LH18	4CL3C	LT	9.50e-02	UGG
0.0	01-nov-1991	LH18	4CLPPE	LT	3.30e-02	UGG
4.0	01-nov-1991	LM18	4CLPPE	LT	3.30e-02	UGG
10.0	02-nov-1991	LM18	4CLPPE	LT	3.30e-02	ucc
0.0	01-nov-1991	LH18	4MP	LT	2.40e-01	UGG
4.0	01-nov-1991	LH18	4MP	LT	2.40e-01	ucc
10.0	02- nov- 1991	LH18	4HP	LT	2.40e-01	UGE
0.0	01-กอง-1991	LH18	4NANTL	LT	4.10e-01	UCG
4.0	01-nov-1991	LH18	4NANIL	LT	4.10e-01	UCG
10.0	02-nov-1991	LM18	4NANIL	LT	4.10e-01	UGG
0.0	01-nov-1991	LM18	4MP	LT	1.40++00	UGG
4.0	01-nov-1991	LM18	4 NP	LT	1.40e+00	UCG
10.0	02-nov-1991	LM18	4MP	LT	1.40e+00	UGG
0.0	01-nov-1991	LH18	ABHC	MD	2.70e-01	UGG
4.0	01-nov-1991	LH18	ABHC	MD	2.70e-01	UGG
10.0	02-nov-1991	LM18	ASHC	MO	2.70e-01	UGG
0.0	01-nov-1991	LH18	ACLDAN	MO	3.30e-01	UGG
4.0	01-rev-1991	LN18	ACLDAN	NO	3.30e-01	UGG
10.0	02-nov-1991	LH18	ACLDAN	NO	3.30e-01	UGG

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SAMPLE	SAMPLE	TEST				
DEPTH (f		METHOD	COMPOUND	800L	CONCENTRATION	UNITS
DEPIN (I	.,	*****		••••		*****
0.0	01-nov-1991	LH18	AENSLF	MO	6.20e-01	UGG
4.0	01-nov-1991	LH18	AEHSLF	NO	6.20e-01	UGG
10.0	02-nov-1991	LM18	AENSLF	NO	6.20e-01	UGG
0.0				NO.	3.30e-01	UGG
	01-nov-1991	LM18	ALDRN			
4.0	01-nov-1991	LH18	ALDRN	MO	3.30e-01	UGG
10.0	02-nov-1991	LH18	ALDRM	MO	3.30e-01	UGG
0.0	01-nov-1991	LM18	ANAPNE	LT	3.60e-02	UGG
4.0	01-nov-1991	LN18	ANAPHE	LT	3.60e-02	UGG
10.0	02-nov-1991	LM18	ANAPHE	LT	3.60e-02	UGG
0.0	01-nov-1991	LH18	ANAPYL	LT	3.30e-02 .	UGG
4.0	01-nov-1991	LM18	ANAPYL	LT	3.30e-02	UGG
10.0	02-nov-1991	LN18	ANAPYL	LT	3.30e-02	UGG
0.0	01-nov-1991	LM18	ANTRC	LT	3.30e-02	UGG
4.0	01-nov-1991	LM18	ANTRC	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	ANTRC	LT	3.30e-02	UGG
0.0	01-nov-1991	LM18	82CEXH	LT	5.90e-02	UGG
4.0	01-nov-1991	LH18	82CEXH	LT	5.90e-02	UGG
10.0	02-nov-1991	LN18	B2CEXH	LT	5.90e-02	UGG
0.0	01-nov-1991	LM18	BZCIPE	LT	2.00e-01	UGG
4.0	01-nov-1991	LM18	BZCIPE	LT	2.00e-01	UGG
10.0	02-nov-1991	LH18	82CIPE	LT	2.00e-01	UGG
0.0	01-nov-1991	LM18	SSCLEE	LT	3.30e-02	UGG
4.0	01-nov-1991	LH18	BSCLEE	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	BSCFEE	LT	3.30e-02	UGG
0.0	01-nov-1991	LH18	SZEHP	LT	6.20e-01	UGG
4.0	01-nov-1991	LH18	BZEHP	LT	6.20e-01	UGG
10.0	02-nov-1991	LH18	82EHP	LT	6.20e-01	UGG
0.0	01-nov-1991	LH18	BAANTR	LT	1.70e-01	UGG
4.0	01-nov-1991	LH18	BAANTR	LT	1.70e-01	UGG
10.0	02-nov-1991	LH18	BAANTR	LT	1.70e-01	UGG
0.0	01-nov-1991	LH18	BAPYR	LT	2.50e-01	UGG
4.0	01-nov-1991	LH18	BAPYR	LT	2.50e-01	UGG
10.0	02-nov-1991	LH18	BAPYR	LT	2.50e-01	UGG
0.0	01-nov-1991	LM18	BEFANT	LT	2.10e-01	UGG
4.0	01-nov-1991	LH18	BBFANT	LT	2.10e-01	UGG
10.0	02- nov- 1991	LH18	BEFANT	LT	2.10e-01	UGG
0.0	91-nov-1991	LM18	SSHC	HO	2.70e-01	UGG
4.0	01-nov-1991	LH18	88HC	HD	2.70e-01	UGG
10.0	02- nov- 1991	LM18	OKSS	MD	2.70e-01	UGG
0.0	01-nov-1991	LH18	38ZP	LT	1.70e-01	UGG
4.0	01-nov-1991	UH18	8 92P	LT	1.70e-01	UGG
10.0	02-nov-1991	LM18	BBZP	LT	1.70e-01	UGG
0.0	01-nov-1991	LM18	Benslf	MD	6.20e-01	UGG
4.9	01-nov-1991	LM18	BEXSLF	MD	6.20e-01	UGG
10.9	02-nov-1991	LM18	BENSLF	MD	6.20e-01	UGG
0.0	01-nov-1991	LM18	BENZID	MD	8.50e-01	UGG
4.0	01-nov-1991	LHIS	BENZID	NO	8.50e-01	UGG
10.6	02-nov-1991	LH18	BENZID	ND	8.50e-01	UGG

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SAMPLE	SAMPLE	TEST				
DEPTH (ft		METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
*****	**********	*****		****	**********	•••••
0.0	01-nov-1991	LM18	BENZOA	HD	6.10 e+ 00	UGG
4.0	01-nov-1991	LH18	BENZOA	MD	6.10 e+ 00	UGG
10.0	02-nov-1991	LM18	BEHZOA	MD	6.10 e+ 00	UGG
0.0	01-nov-1991	LM18	BGHIPY	LT	2.50e-01	UGG
4.0	01-nov-1991	LM18	BGHIPY	LT	2.50e-01	UGG
10.0	02-nov-1991	LM18	BGHIPY	LT	2.50e-01	UGG
0.0	01-nov-1991	LM18	BKFANT	LT	6.60e-02	UGG
4.0	01-nov-1991	LM18	BKFANT	LT	6.600-02	UGG
10.0	02-nov-1991	LM18	SKFANT	LT	6.60e-02	UGG
0.0	01-nov-1991	LM18	BZALC	LT	1.90e-01	UGG
4.0	01-nov-1991	LH18	BZALC	LT	1.90e-01	UGG
10.0	02-nov-1991	LM18	BZALC	LT	1.90e-01	UGG
0.0	01-nov-1991	LH18	CHRY	LT	1.20e-01	UGG
4.0	01-nov-1991	LH18	CHRY	LT	1.20e-01	UGG
10.0	02-nov-1991	LX18	CHRY	LT	1.20e-01	UGG
0.0	01-nov-1991	LM18	CL68Z	LT	3.30e-02	UGG
4.0	01-nov-1991	LM18	CL68Z	LT	3.30e-02	UGG
10.0	02-nov-1991	LM18	CL68Z	LT	3.30e-02	UGG
0.0	01-nov-1991	LM18	CL6CP	LT	6.20e+00	UGG
4.0	01-nov-1991	LH18	CL 6CP	LT	6.20+00	UGG
10.0	02-nov-1991	LM18	CLACP	LT	6.20++00	UGG
0.0	01-nov-1991	LM18	CLEET	LT	1.50e-01	UGG
4.0	01-nov-1991	LH18	CLOET	LT	1.50e-01	UGG
10.0	02-nov-1991	LM18	CLOET	LT	1.50e-01	UGG
0.0	01-nov-1991	LM18	DBAHA	LT.	2.10e-01	UGG
4.0	01-nov-1991	LH18	DBAHA	LT	2.10e-01	UGG
10.0	02-nov-1991	LM18	JBAHA	LT	2.10e-01	UGG
0.0	01-nov-1991	LM18	DSHC	MD	2.70e-01	UGG
4.0	01-nov-1991	LH18	DBHC	MD	2.70e-01	UGG
10.0	02-nov-1991	LM18	DBHC	MD	2.70e-01	UGG
0.0	01-nov-1991	LH18	DEZFUR	LT	3,50e-02	UGG
4.0	01-nov-1991	LH18	DEZFUR	LT	3.50e-02	UGG
10.0	02-nov-1991	LH18	DEZFUR	LT	3.50e-02	UGG
0.0	01-nov-1991	LH18	DEP	LT	2.4Ge-01	UGG
4.0	01-nov-1991	LH18	DEP	LT	2.40e-01	UGG
10.0	02-nov-1591	LH18	DEP	LT	2.40e-01	UGG
0.0	01-nov-1991	LH18	DLDRN	MD	3.10e-01	UGG
4.0	01-nov-1991	LH18	DLDRN	MO	3.10e-01	UGG
10.0	02-nov-1991	LH18	DLDRN	MO	3.10e-01	UGG
0.0	01-nov-1991	LH18	DMP	LT	1.70e-01	UGG
•.0	01-nov-1991	LH18	DMP	LT	1.70e-01	UGG
10.0	02-nov-1991	LH18	DMP	LT	1.70e-01	UGG
0.0	01-nov-1991	LH18	DNBP		9.044-02	UGG
4.0	01-nov-1991	LH18	DNEP	LT	6.10e-02	UGG
10.0	02-nov-1991	LH18	DNEP	LT	6.10e-02	UGG
0.0	01-nov-1991	LH18	DNOP	LT	1.90e-01	UGG
4.0	01-nov-1991	LN18	DNOP	LT	1.90@-01	UGG
10.0	02-nov-1991	UH18	DNOP	LT	1.90e-01	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

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SAMPLE	SAMPLE	TEST				
GEPTH (ft) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••	********	*****	•	••••		
0.0	01-nov-1991	LH18	ENORN	MD	4.50e-01	UGG
4.0	01-nov-1991	LH18	ENDRM	NO	4.504-01	UGG
10.0	02-nov-1991	LH18	ENDRN	MO	4.50e-01	UGG
0.0	01-nov-1991	LH18	EHDRNA	ND	5.30e-01	UGG
4.0	01-nov-1991	LM18	ENDRNA	MD	5.30e-01	UGG
10.0	02-nov-1991	LM18	ENDRHA	MO	5.30e-01	UGG
0.0	01-nov-1991	LM18	ENORNK	NF)	5.30e-01	UGG
4.0	01-nov-1991	UM18	ENDRNK	MO	5.30e-01	UGG
10.0	02-nov-1991	LH18	ENORNK	MD	5.30e-01	UGG
0.0	07-nov-1991	LH18	ESFS04	NO	6.20e-01	UGG
4.0	01-nov-1991	LH18	ESFS04	NO	6.20e-01	UGG
10.0	02-nov-1991	LM18	ESFS04	ND	6.20e-01	UGG
0.0	01-rxv-1991	LM18	FANT	LT	6.80e-02	UGG
4.0	01-nov-1991	LM18	FAVT	LT	6.80e-02	UGG
10.0	02-nov-1991	LH18	FANT	LT	6.80e-02	UGG
0.0	01-nov-1991	ĹM18	FI RENE	LT	3.30e-02	UGG
4.0	01-nov-1991	LM18	FLRENE	LT	3.3Ge-G2	UGG
10.0	02-nov-1991	LH18	FLRENE	LT	3.30e-02	UGG
0.0	01-nov-1991	LM18	GCLDAN	MD	3.30e-01	UGG
4.0	01-nov-1991	LM18	GCLDAN	MD	3.30e-01	UGG
10.0	02-nov-1991	LH18	GCLDAN	NO.	3.30e-01	UGG
0.0	01-nov-1991	LM18	HCBD	LT	2.30e-01	UGG
4.0	01-nov-1991	LH18	HCED	LT	2.304-01	UGG
10.0	02-nov-1991	LH18	XC80	LT	2.30e-01	UGG
0.0	01-nov-1991	LH18	HPCL	MO	1.30e-01	UGG
4.0	01-nov-1991	LH18	HPCL	MD	1.30e-01	UGG
10.0	02-nov-1991	LHIB	HPCL	MD	1.30e-01	UGA
0.0	01-nov-1991	LM18	HPCLE	MO	3.30e-01	UGG
4.0	01-nov-1991	LH18	HPCLE	HD.	3.30e-01	UGG
10.0	02-nov-19 9 1	LH18	HPCLE	HD	3.30e-01	UGG
4.0	01-nov-1991	I.M18	HXMETA		1.21e+00	UGG
0.0	01-noy-1991	LH18	ICOPYR	LT	2.90e-01	UGG
4.0	01-nov-1991	LH18	I CDPYR	LT	2.90e-01	UGG
10.0	02-nov-1991	LM18	I COPYR	LT	2.9001	UGG
0.0	01-nov-1991	LH18	ISOPHR	LT	3.30e-02	UGG
4.0	01-nov-1991	LH18	ISOPHR	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	ISOPHR	LT	3.30e-02	UGG
6.0	01-nov-1991	LM18	LIM	NO	2.70e-01	UGG
4.0	01-nov-1991	LM18	LIM	MO	2.70e-01	UGG
10.0	02-nov-1991	LM18	LIM	MO	2.70e-01	UGG
0.0	01-nov: 1991	LM18	MEXCLR	MD	3.3001	UGG
4.0	01-nov-1991	LM18	MEXCLR	NO	3.30e-01	UGG
10.0	02-nov-1991	LH18	MEXCLR	MO	3.30e-01	UGG
0.0	01-nov-1991	LM18	KAP	LT	3.70e-02	UGG
4.0	01-nov-1991	LM18	HAP	LT	3.70e-02	UGG
10.0	02-nov-1991	LM18	NAP	LT	3.70e-02	UGG
0.0	01-nov-1991	LM18	NB	LT	4.50e-02	UGG
4.0	01: nov-1991	LM18	HB	LT	4.50e-02	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAMPLE	SAMPLE	TEST				
DEPTH (ft) DATE	METHOD	СОНРОШНО	SOOL	CONCENTRATION	UNITS
• • • • • • • • • • • • • • • • • • • •	********	•••••	•••••	••••	***********	*****
10.0	02-nov-1991	LH18	NR	LT	4.50e-02	UGG
0.0	01-nov-1991	LN18	NNOMEA	MD	1.40e-01	UGG
4.0	01-nov-1-791	LH18	AMONEA	ND	1.40e-01	UGG
10.0	02-nov-1991	LH18	NNOMEA	NO	1.40e-01	UGG
0.0	01-nov-1991	LM18	NIIDNPA	LT	2.00e-01	UGG
4.0	01-nov-1991	LH18	NNONPA	LT	2.00e-01	UGG
10.0	02-nov-1991	LH18	NNONPA	LT	2.00e-01	UGG
0.0	01-nov-1991	LH18	NNDPA	LT	1.90e-01	UGG
4.0	01-nov-1991	LH18	NNOPA	LT	1.90e-01	UGG
10.0	02-nov-1991	LH18	NACPA	LT	1.90e-01	UGG
0.0	01-nov-1991	LM18	PCB316	MO	1.40e+00	UGG
4.0	01-nw-1991	LH18	PCB016	NO	1.40++00	UGG
10.0	02-nov-1991	LN18	PC8016	MD	1.40++00	UGG
0.0	01-nov-1991	LH18	PC8221	MO	1.40-00	UGG
4.0	01-nov-1991	LH18	PC8221	NO	1.40++00	UGG
10.0	02-nov-1991	LM18	PCB221	ND	1.40++00	UGG
0.0	01-nov-1991	LH18	PC&Z32	NO	1.40e+00	UGG
4.0	01-nov-1991	LH18	PCB232	MO	1.40++00	UGG
10.0	02-nov-1991	LH18	PC8232	NO	1.40e+00	UGG
0.0	01-nov-1991	LH18	PC8242	MO	1.40e+00	UGG
4.0	01-nov-1991	LH18	PC8242	MO	1.40++00	UGG
10.0	02-nov-1991	LH18	PC8242	MD	1.40++00	UGG
0.0	01-nov-1991	LH18	PC8248	ND	2.00e+00	UGG
4.0	01-nov-1991	LH18	PC8248	MO	2.00e+00	UGG
10.0	02-nov-1991	LHIS	PC8248	10	2.00e+00	UGG
0.0	01-nov-1991	LM18	PC8254	NO	2.30++00	UGG
4.0	01-nov-1991	LM18	PC8254	MO	2.30e+00	UGG
10.0	02-nov-1991	LH18	PCB254	ND	2.30e+00	UGG
0.0	01-nov-1991	LH18	PC3260	ND	2.60++00	UGG
4.0	01-nov-1991	LH18	PCB260	KO	2.60 e+ 00	UGG
10.0	02-ncv-1991	LH18	PC8260	MD	2.60++00	UGG
0.0	01-nov-1991	LM18	PCP	LT	1.30e+00	UGG
4.0	01-nov- 1991	LM18	PCP	LT	1.30++00	UGG
10.0	02-nov-1991	LM18	PCP	LT	1.30++00	UGG
0.0	01-nov-1991	LM18	PHANTR	LT	3.30e-02	UGG
4.0	01-nov-1991	LH18	PHANTR	LT	3.30e-02	UGG
10.0	02-nov-1991	LM16	PHANTR	LT	3.30e-02	UGG
0.0	01-nov-1991	LH18	PHEXOL	LT	1.10e-01	UGG
4.0	01-nov-1991	Uh18	PHENOL	LT	1.10e-01	UGG
10.0	02-nov-1991	LH18	PHENOL	LT	1.10e-01	UGG
0.0	01-nov-1991	LM18	PPDDD	HD	2.70e-01	UGG
4.0	01-nov-1991	LM18	PP000	MD.	2.70e-01	UGG
10.0	92- 200 -1991	LH18	PPCOO	MD	2.70e-01	UGG
0.0	01-nov-1991	LM18	PPODE	MD	3.10e-01	UGG
4.0	91-nov-1591	LP18	PPDOE	MD	3.10e-01	UGG
10.0	02-nov-1991	LH18	PPODE	MD	3.10e-01	UGG
0.0	01-nov-1991	LH18	PPDOT	MD	3.10e-01	UGG
4.0	01-nov-1991	LM18	PPDDT	NO	3.10e-01	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAMPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
*****	********		*******	• • • •		••••
10.0	02-nov-1991	LH18	PPODT	MD	3.10e-01	UGG
0.0	01-nov-1991	LM18	PYR	LT	3.30e-02	UGG
4.0	01-nov-1991	LM18	PYR	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	PYR	LT	3.30e-02	UGG
0.0	01-nov-1991	LH18	TXPHEN	ND	2.60e+00	UGG
4.0	01-nov-1991	LM18	TXPHEN	NO	2.60e+00	UGG
10.0	02-nov-1991	LM18	TXPHEN	NO	2.60e+00	UCG
4.0	01-nov-1991	LM18	UNK517		8.48e-01	UGG
4.0	01-nov-1991	LH18	UNK595 *		6.06e+00	UGG
10.0	02-nov-1991	LN18	UNK595 *		6.42 e+ 00	UGG
0.0	01-nov-1991	LM18	UNKS96		2.11e+02	UGG
0.0	01-nov-1991	LM18	UNK603		8.45e-01	UGG
0.0	01-nov-1991	LM18	UNK645		3.17e-01	UGG
0.0	01-nov-1991	LH18	UNK660		6.34e-01	UGG
0.0	01-nov-1991	LM18	UNK669		9.50e-01	UGG
0.0	01-nov-1991	LM18	UNK681		7.39e-01	UGG
0.0	01-nov-1991	LM18	UNK696		9.50e-01	UGG
0.0	01-nov-1991	LM19	111TCE	LT	4.40e-03	UGG
4.0	01-nov-1991	LM19	111TCE	LT	4.40e-03	UGG
10.0	02-nov-1991	LH19	111TCE	LT	4.40e-03	UGG
0.0	01-nov-1991	LH19	112TCE	LT	5.40e-03	UGG
4.0	01-nov-1991	LN19	112TCE	LT	5.40e-03	UGG
10.0	02-nov-1991	LH19	112TCE	LT	5.40e-03	UGG
0.0	01-nov-1991	LN19	11DCE	LT	3.90e-03	UGG
4.0	01-nov-1991	LM19	11DCE	LT	3.90e-03	UGG
10.0	02-nov-1991	LH19	11DCE	L7	3.90e-03	UGG
0.0	01-nov-1991	LH19	11DCLE	LT	2.30e-03	UGG
4.0	01-nov-1991	LH19	11DCLE	LT	2.30e-03	USG
10.0	02-nov-1991	LM19	11DCLE	LT	2.30e-03	UGG
0.0	01-nov-1991	LM19	12DCE	LT	3.00e-03	UGG
4.0	01-nov-1991	LM19	12DCE	LT	3.00e-03	UGG
10.0	02-nov-1991	LH19	120CE	LT	3.00e-03	UGG
0.0	01-nov-1991	LH19	12DCLE	LT	1.70e-03	UGG
4.0	01-nov-1991	LH19	12DCLE	LT	1.70e-03	UGG
10.0	02-nov-1991	LH19	12DCLE	LT	1.70e-03	UGG
0.0	01-nev-1991	LH19	120CLP	LT	2.90e-03	UGG
4.0	01-nov-1991	LH19	12DCLP	LT	2.90e-03	UGG
10.0	02-nov-1991	LH19	12DCLP	LT	2.90e-03	UGG
0.0	01-pey-1991	LH19	2CLEVE	ND	1,00e-02	UGG
4.0	01-nov-1991	LM19	2CLEVE	ND ND	1.00e-02	UGG
10.0	02-nov-1991	LH19	2CLEVE	ND	1.00e-02	UGG
0.0	01-nov-1991	LM19	ACET	LT	1.70e-02	UGG
4.0	01-nov-1991	LM19	ACET	LT	1.70e-02	UGS
10.0	02-nov-1991	LM19	ACET	LT	1.70e-02	UGG
0.0	01-nov-1991	LM19	ACROLN	NO.	1.00e-01	UGG
4.0	01-nov-1991	LM19	ACROLN	NO	1.00e-01	UGG
10.0	02-nov-1991	LH19	ACROLN	NO	1.00e-01	UGG
	VG 1807 1771	En ()	ACKUCA	1967	1.004-01	Ulaly

^{*}Trinitrobenzene

[&]quot;Trinitrotoluene

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

SAMPLE	SAMPLE	TEST				
DEPTH (f		METHOD	504004110	2001		
*****	., vaic	ME I MA	COMPOUND	800L	CONCENTRATION	UNITS
0.0	01-nov-1991	LH19	ACRYLO	NO	1 00- 04	
4.0	01-nov-1991	LH19	ACRYLO	NO NO	1.00e-01	UGG
10.0	02-nov-1991	LH19	ACRYLO	NO NO	1.00e-01	UGG
0.0	01-nov-1991	LM19	BROCLM		1.00e-01	UGG
4.0	01-nov-1991	LM19	BROCLM	LT	2.90e-03	UGG
10.0	02-nov-1991	LH19		LT	2.90e-03	UGG
0.0	01-nov-1991	LM19	SRDCLM	LT	2.90e-03	UGG
4.0	01-nov-1991	LM19	C130CP C130CP	LT	3.20e-03	UGG
10.0	02-nov-1991	LM19	C130CP	LT	3.20e-03	UGG
0.0	01-nov-1991	LH19		LT	3.2003	UGG
4.0	01-nov-1991	LM19	CZAVE	LT	3.204-03	UGG
10.0	02-nov-1991	LH19	CZAVE	LT	3.20e-03	UGG
0.0	01-nov-1991		CZAVE .	LT	3.20e-03	UGG
4.0	01-nov-1991	LH19	C2H3CL	LT	6.20e-03	UGG
10.0	02-nov-1991	LM19	C2H3CL	LT	6.20e-03	UGG
0.0	01-nov-1991	LM19	C2H3CL	LT	6.20e-03	UGG
4.0	01-nov-1991	LN19	C2H5CL	LT	1.20e-02	UGG
10.0		LM19	CZHSCL	LT	1.2002	UGG
0.0	02-nov-1991 01-nov-1991	LH19	C2H5CL	LT	1.20e-02	UGG
4.0	01-nov-1991	LN19	C6H6	LT	1.50e-03	UGG
10.0	02-nov-1991	LH19	C5H6	LT	1.50e-03	UGG
0.0	01-nov-1991	LN19	C6H6	LT	1.50e-03	UGG
4.0	01-nov-1991	LH19	CCL3F	LT	5.90e-03	UGG
10.0	02-nov-1991	LH19	CCL3F	LT	5.90e-03	UGG
0.0	01-nov-1991	LM19	CCL3F	LT	5.90e-03	UGG
4.0	01-nov-1991	LN19	CCL4	LT	7.00e-03	UGG
10.0	02-nov-1991	LH19	CCL4	LT .	7.00e-03	UGG
0.0	01-nov-1991	LM19	CCL4	LT	7.00e-03	UGG
4.0	01-nov-1991	LN19	CH2CL2	LT	1.20e-02	UGG
10.0	02-nov-1991	UH19	CHSCFS	LT	1.294-07	UGG
0.0	01-nov-1991	LH19	CH2CL2	LT	1.20e-02	UGG
4.0	01-nov-1991	LN19	CH3BR	LT	5.70e-03	UGG
10.0	02-nov-1991	LN19	CH38R	LT	5.70e-03	UGG
0.0	01-nov-1991	LN19 LN19	CH38R	LT	5.702-03	UGG
4.0	01-nov-1991	LH19	CH3CL	LT	8.80e-03	UGG
10.0	02-nov-1991	LN19	CH3CL	LT	8.80e-03	UGG
0.0	01-nov-1991	LH19		LT	5.80e-03	UGG
4.0	01-nov-1991	LH19	CHBR3 CHBR3	LT	6.90e-03	UGG
10.0	02-nov-1991	LH19	CHBR3	LT	6.90e-33	UGG
0.0	01-nov-1991	UH19	-	LT	6.90e-03	UGG
4.0	01-nov-1991	LH19	CHCL3	LT	8.7004	UGG
16.0	02-nov-1991	LH19	CHCT3	LT	8.70e-04	UGG
0.0	01-nov-1991	LH19 LH19	CHCL3	LT	8.70e-04	UGG
4.0	01-nov-1991	EM19	CL2BZ	NO NO	1.0001	UGG
10.0	02-nov-1991		CL 282	MO	1.00e-01	UGG
0.0	01-nov-1991	LM19 LM19	CL 28Z	KO.	1.00e-01	UGG
4.0	01-nov-1991	LM19	CLC6H5 CLC6H5	LT	8.604-04	UCG
10.0	02-nov-1991	LH19		LT	8.6004	UGG
	AE-1804-1331	CR 17	CLCCHS	LT	8.604-04	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAMPLE	SAMPLE	TEST				
DEPTH (ft		METHOD	COMPOUND	BOOL	CONCENTRATION	·UNITS
•••••					4 44 47	
0.0	01-nov-1991	LN19	CS2	LT	4.40e-03	UGG
4.0	01-nov-1991	LM19	C\$2	LT	4.40e-03	UGG
10.0	02-nov-1991	LH19	C25	LT	4.40e-03	UGG
0.0	01-nov-1991	LM19	DERCLM	LT	3.10e-03	UGG
4.0	01-nov-1991	LH19	DBRCLM	LT	3.10e-03	UGG
10.0	02-nov-1991	LH19	DBRCLM	LT	3.10e-03	UGG
0.0	01-nov-1991	LH19	ETC6H5	LT	1.70e-03	UGG
4.0	01-nov-1991	LH19	ETC6H5	LT	1.70e-03	UGG
10.0	02-nov-1991	LH19 .	ETC6H5	LT	1.70e-03	UGG
0.0	01-nov-1991	LM19	MEC6H5	LT	7.80e-04	UGG
4.0	01-nov-1991	LM19	MEC6H5	LT	7.80e-04	UGG
10.0	02-nov-1991	LH19	MEC6HS	LT	7.80e-04	UGG
0.0	01-nov-1991	LH19	MEK	LT	7.00e-02	UGG
4.0	01-nov-1991	LH19	MEK	LT	7.00e-02	UGG
10.0	02-nov-1991	LH19	MEK	LT	7.00e-02	UGG
0.0	01-nov-1991	LH19	MISK	LT	2.70e-92	UGG
4.0	01-nov-1991	LH19	HIBK	LT	2.70e-02	UGG
10.0	02-nov-1991	LH19	MIBK	LT	2.70e-02	UGG
0.0	01-nov-1991	LH19	MNSK	LT	3.20e-02	UGG
4.0	01-nov~1991	LH19	MHSK	LT	3.20e-02	UGG
10.0	02-nov-1991	LH19	MISK	LT	3.20e-02	UGG
0.0	01-nov-1991	LH19	STYR	LT	2.60e-03	UGG
4.0	01-nov-1991	LH19	STYR	LT	2.60e-03	UGG
10.0	02-nov-1991	LN19	STYR	LT	2.60e-03	UGG
0.0	01-nov-1991	LM19	T130CP	LT	2.80e-03	UGG
4.0	01-nov-1991	LH19	T130CP	LT	2.80e-03	UGG
10.0	02-nov-1991	LM19	7130CP	LT	2.80e-03	UGG
0.0	01-nov-1991	LH19	TCLEA	LT	2.40e-03	UGG
4.0	01-nov-1991	LM19	TCLEA	LT	2.404-03	UGG
10.0	02-nov-1991	LH19	TCLEA	LT	2.40e-03	UGG
0.0	01-nov-1991	LH19	TCLEE	LT	8.10e-04	UGG
4.0	01-nov-1991	LH19	TCLEE	LT	8.10e-04	UGG
10.0	02-nov-1991	LH19	TCLEE	LT	8.10e-04	UGG
0.0	01-nov-1991	LH19	TRCLE	LT	2.80e-03	UGG
4.0	01-nov-1991	LH19	TRCLE	LT	2.80e-03	UGG
10.0	02-nov-1991	LN19	TRCLE	LT	2.80e-03	UGG
0.0	01-nov-1991	LN19	XYLEN	LT	1.50e-03	UGG
4.0	01-nov-1991	LN19	XYLEN	ĹŤ	1.50e-03	UGG
10.0	02-nov-1991	LH19	XYLEN	LT	1.50e-03	UGG
20.0	02-nov-1991	LW12	135TNB		1.87++00	UGG
20.0	02-nov-1991	LW12	135TNB		1.87++00	UGG
0.0	01-nov-1991	LU12	135TN2		1.70e+01	UGG
0.0	01-nov-1991	LW12	135TNB		1.70e+01	UGG
4.0	01-nov-1991	LW12	135TNB		1.80++01	UGG
4.0	01-nov-1991	LU12	135TNB		1.80++01	UCG
45.0	02-nov-1991	LW12	135THB		1.80+01	UGG
45.0	02-nov-1991	LW12	135TNB		1.9Ge+01	UGG
73.4	V6-1NT-1771	F= 1 &	133178		1.704701	

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

SAMPLE	SAMPLE	TEST				
DEPTH (ft	=	METHOD	COMPOLINO	BOOL	CONCENTRATION	INITE
*****	*******	*****	*******	••••	CONCERTRATION	UNITS
35.0	02-nov-1991	LW12	135TNB		2.09e+01	UGG
2.0	01-nov-1991	LW12	135THE		2.10e+01	UGG
2.0	01-nov-1991	LW12	135THB		2.10e+01	UGG
25.0	02-nov-1991	LW12	135TNB		2.29e+01	
25.0	02-nov-1991	LW12	135TKB		2.29e+01	UGG
8.0	02-nov-1991	LW12	135THB		2.30e+01	
8.0	02-nov-1991	LW12	135TNB		2.30e+01	UGG
40.0	02-nov-1991	LW12	135THB		3.80e+01	UGG
10.0	02-nov-1991	LW12	135TNB			UGG
10.0	02-nov-1991	LW12	135THB		3.90e+01	UGG
15.0	02-nov-1991	LW12	· · · · -		3.90e+01	UCG
15.0	02-nov-1991	LW12	135THB		3.90e+01	UGG
30.0	02-nov-1991	LW12	135TNB		3.90e+61	UGG
30.0	02-nov-1991		135THB		4.00e+01	UGG
6.0	02-nov-1991	LW12	135TNB		4.00 e+ 01	UGG
6.0		LW12	135788		4.70e+01	UGG
45.0	02-nov-1991 02-nov-1991	LW12	135THB		4.70e+01	UGG
40.0		LW12	130MB		5.47e-01	UGG
0.0	02-nov-1991	LW12	13DHS		9.99e-01	UGG
0.0	01-nov-1991	LW12	13048	LT	4.96e-01	UGG
2.0	01-nov-1991	LW12	13048	LT.	4.96e-01	UGG
2.0	01-nov-1991	LW12	130×8	LT	4.96e-01	UGG
4.0	01-nov-1991	LW12	13DHB	LT	4.9 6e -01	UGG
4.0	01-nov-1991 01-nov-1991	LW12	130KB	LT	4.96e-01	UGG
6.0	02-nov-1991	LW12	130HB	LT	4.96e-01	UGG
6.0	02-nov-1991	LW12	130NB	LT	4.96e-01	UGG
8.0	02-nov-1991	LW12	130HB	LT	4.964-01	UGG
8.0	02-nov-1991	LW12	130NR	LT	4.96e-01	UGG
10.0	02-nov-1991	LW12	130×8	LT	4.9 00 -01	UGG
10.0	92-nov-1991	LW12	130MB	ĻŢ	4.96e-01	UGG
15.0	02-nov-1991	LW12	130k8	LT	4.96e-01	UGG
15.0	02-nov-1991	LW12	13DNB	LT	4.96e-01	UGG
20.0	02-nov-1991	LW12	130NB	LT	4.96e-01	UGG
20.0	92-nov-1991	LW12	130NB	LT	4.964-01	UGG
25.0	\$2-nov-1991	LW12	130NB	LT	4.96e-01	UGG
25.0		LW12	130×8	LT	4.964-01	UGG
30.0	02-nov-1991	LW12	130NB	LT	4.9 6e -01	UGG
30.0	02-nov-1991	LW12	130HB	LT	4.96e-01	UGG
35.0	02-nov-1991	LW12	130NB	LT	4.96e-01	UGG
45.0	02-nov-1991	LW12	130NE	LT	4.964-01	UGG
4.0	02-nov-1991	LW12	130MB	LT	4.96e-01	UGG
4.0	01-nov-1991	LW12	246TNT		7.964-01	UGG
6.0	01-nov-1991	LW12	246TNT		7.9 6e -01	UGG
	02-nov-1991	LW12	246TNT		1.04e+00	UGG
6.0	02-nov-1991	LW12	246TNT		1.04e+00	UGG
8.0	02-nov-1991	LW12	246THT		1.41e+00	UGG
8.0	02-nov-1991	LW12	2467NT		1.41e+00	UGG
35.0	02-nov-1991	LW1Z	246TNT		2.16e+00	UGG
10.0	02-nov-1991	LW12	246TNT		4.23 ↔ 00	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

Site: 80RE 5048007

(continued)

SAMPLE	SAMPLE	TEST				
DEPTH (f		HETHOD	COMPOUND	SOOL	CONCENTRATION	UNITS
*****	********	******	*******	••••	**********	****
10.0	02-nov-1991	LW12	246TNT		4.23e+00	UGG
20.0	02-nov-1991	LW12	246TNT		4.36e+00	UGG
20.0	02-nov-1991	LV12	246TNT		4.36e+00	UGG
40.0	02-nov-1991	LW12	246THT		4.57e+00	UGG
25.0	02-nov-1991	LU12	246TNT		1.14+01	UGG
25.0	02-nov-1991	LW12	246TNT		1.14e+01	UGG
30.0	02-nov-1991	L¥12	246TNT		2.02+01	UGG
30.0	02-nov-1991	LW12	246TNT		2.02e+01	UGG
45.0	02-nov-1991	LU12	246TNT		2.40e+01	UGG
45.0	02-nov-1991	LW12	246TNT		2.70e+01	UGG
15.0	02-nov-1991	LW12	246TNT		3.40=+01	UGG
15.0	02-nov-1991	LW12	246TNT		3.40e+01	UGG
2.0	01-nov-1991	LW12	246TNT		1.30e+03	UGG
2.0	01-nov-1991	LW12	246TNT		1.30e+03	UGG
0.0	01-nov-1991	LW12	246TNT		1.40e+03	UGG
0.0	01-nov-1991	LW12	246TNT		1.40e+03	UGG
8.0	02-nov-1991	LW12	24DNT		6.14e-01	UGG
8.0	02-nov-1991	LW12	24DNT		6.14e-01	UGG
6.0	02-nov-1991	LW12	24DHT		6.83e-01	UGG
6.0	02-nov-1991	LW12	24DNT		6.83e-01	UGG
35.C	02-nov-1991	LW12	24DNT		1.21e+00	UGG
40.0	02-nov-1991	LW12	24DNT		2.34++00	UGG
10.0	02-nov-1991	LW12	24DNT		2.65++00	UGG
10.0	02-nov-1991	LW12	240NT		2.65e+00	UGG
25.0	02-nov-1991	LW12	24DNT		2.93++00	UGG
25.0	02-nov-1991	LW12	24DNT		2.93++00	UGG
20.0	02-nov-1991	LW12	24DNT		3.04e+00	UGG
20.0	02-nov-1991	LW12	24DNT		3.04++00	UGG
45.0	02- nov- 1991	LW12	24DNT		3.47e+00	UGG
30.0	02-nov-1991	LW12 -	24DNT		3.96e+00	UGG
30.0	02-nov-1991	LW12	24DNT		3.96e+00	UGG
45.0	02-nov-1991	LW12	24DNT		4.41e+00	UGG
15.0	02-nov-1991	LW12	24DHT		1.62++01	UGG
15.0	02-nov-1991	LW12	24DNT		1.62+01	UGG
0.0	01-nov-1991	LW12	24DNT	LT	4.24e-01	UGG
0.0	01-nov-1991	LW12	24DNT	LT	4.24e-01	UGG
2.0	01-nov-1991	LU12	24DNT	LT .	4.244-01	UGG
2.0	01-nov-1991	LW12	240HT	LT	4.24e-01	UGG
4.0	01-nov-1991	LW12	24DNT	LT	4.24e-01	UGG
4.0	01-nov-1991	LW12	24DHT	LT	4.244-01	UGG
0.0	01-nov-1991	LW12	26DNT	LT	5.24e-01	UGG
0.0	01-nov-1991	LW12	260NT .	LT	5.24e-01	UGG
2.0	01-nov-1991	LW12	26DNT	LT	5.24e-01	UGG
2.0	01-nov-1991	LW12	260NT	LT	5.24e-01	UGG
4.0	01-nov-1991	LW12	26DNT	LT	5.24e-01	UGG
4.0	01-nov-1991	LY12	26DNT	LT	5.24e-01	UGG
6.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
6.0	02-nov-1991	LW12	ZEDNT	LT	5.24e-01	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAMPLE	SAIPLE	TEST				
DEPTH (ft	- -	METHOD	COMPOUND	noo:	COMECUEDICION	
	*********	*****	CONFOUND	800L	CONCENTRATION	UNITS
8.0	02-nov-1991	LW12	260NT			****
8.0	02-nov-1991	LW12	250NT	LT	5.24e-01	UGG
10.0	02-nov-1991			LT	5.244-01	UGG
10.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
15.0		LW12	260NT	LT	5.24e-01	UGG
15.0	02-nov-1991	LV12	260NT	LT	5.24e-01	UGG
20.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
20.0	02-nov-1991	LW12	ZGONT	LT	5.24e-01	UGG
	02-nov-1991	LW12	26DNT	LT	5.24 e -01	UGG
25.0 ≈ 3	02-nov-1991	LU12	260NT	LT	5.24e-01	UGG
25.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
30.0	02-nov-1991	LW12	26DNT	LT	5.24e-01	UGG
30.0	02-nov-1991	LW12	26DNT	LT	5.24e-01	UGG
35.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
40.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UCG
45.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
45.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
2.0	01-nov-1991	LW12	HPCK		3.35++00	UGG
2.0	01-nov-1991	LW12	HMX		3.35++00	ugg
35.0	02-nov-1991	I.W12	HMOX		3.67•+00	UGG
20.0	02-nov-1991	LW12	HMOX		5.13e+00	UGG
20.0	02-nov-1991	LW12	HMX		5.13e+00	UGG
46.0	02-nev-1991	LW12	HMX		7.93e+00	UGG
10.0	02-nov-1991	LW12	HMX		1.14+01	UGG
10.0	02-nov-1991	LW12	HMX		1.14+01	UGG
45.0	02-nov-1991	LW12	HMCK		1.30e+01	UGG
45.0	02-nov-1991	LW12	HMX		1.48e+01	UGG
25.0	02-nov-1991	LW12	HMCX		1.64+01	UGG
25.0	02-nov-1991	LU12	KRIGK		1.64++01	UGG
30.0	02-nov-1991	LW12	HMCX		2.19+01	UGG
30.0	02-nov-1991	LW12	HMOX		2.19e+01	ugg
15.0	02-nov-1991	L¥12	HIPCX		4.70e+01	UGG
15.0	02-nov-1991	LW12	HMX		4.70e+01	UGG
0.0	01-nov-1991	LW12	HICK	LT	6.66e-01	UGG
0.0	01-nov-1991	LW12	HMX	LT	6.66e-01	UGG
4.0	01-nov-1991	LW12	HEX	LT	6.66e-01	UGG
4.0	01-nov-1991	LW12	HINCK	LT.	6.66e-01	UGG
6.0	02-nov-1991	L912	HMCX	LT	6.66e-01	UGG
6.0	02-nov-1991	LW12	HICK	LT	6.66e-01	UGG
8.0	02-nov-1991	LW12	HPIX	LT	6.66e-01	UGG
8.0	02-nov-1991	LW12	HPCX	LT	6.66e-01	
	01-nov-1991	LW12	NB	LT	2.41e+00	UGG
	01-nov-1991	LW12	NB	LT	2.41e+00	UGG
	01-nov-1991	LW12	NS	LT	2.41+00	UGG
	01-nov-1991	LW12	NS	LT	2.410+00	UGG
	01-nov-1991	LW12	NB NB	_		UGG
	01-nov-1991	LW12	MB	LT LT	2.41e+00	UGG
	02-nov-1991	LW12	NB NB		2.41e+00	UGG
-	02-nov-1991	LW12		LT	2.41++00	UGG
٠.٠	VE 1107 177	LW (C	HE	LT	2.41 ↔ 00	UGG

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Analytical Results for Chemical Soil

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SAPLE	SAMPLE	TEST				
DEPTH (ft) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
*****	********		*******	••••		*****
8.0	02-nov-1991	LW12	MB	LT	2.41e+00	UGG
8.0	02-nov-1991	LW12	NS	LT	2.41++00	UGG
10.0	02-nov-1991	LW12	MS	LT	2.41e+00	UGG
10.0	02-nov-1991	LW12	N3	LT	2.41e+00	UGG
15.0	02-nov-1991	LW12	MS	LT	2.41e+00	UGG
15.0	02-nov-1991	LW12	NB	LT	2.41e+00	UGG
20.0	02-nov-1991	LW12	MB	LT	2.41e+00	UGG
20.0	02-nov-1991	LW12	MB	LT	2.41e+00	UGG
25.0	02-nov-1991	LW12	NB	LT	2.41e+00	UGG
25.0	02-nov-1991	LW12	NB	LT	2.41e+00	UGG
30.0	02-nov-1991	LW12	K8	LT	2.41e+00	UGG
30.0	02-nov-1991	LW12	HS	LT	2.41e+00	UGG
35.0	02-nov-1991	LW12	NG	LT	2.41e+00	UGG
40.0	02-nov-1991	LW12	NS	LT	2.41e+00	UGG
45.0	G2-nov-1991	LW12	NB	LT	2.41e+00	UGG
45.0	02-nov-1991	LW12	X8	LT	2.41e+00	UGG
8.0	02-nov-1991	LW12	RDX		2.78++00	UGG
8.0	02-nov-1991	LW12	ROX		2.78e+00	UGG
45.0	02-nov-1991	LW12	RDX		2.91e+00	UGG
45.0	02-nov-1991	LU12	RDX		3.24++00	UGG
0.0	01-nov-1991	LW12	RDX		3.38++00	UGG
0.0	01-nov-1991	LW12	RDX		3.38e+00	UGG
35.0	02-nov-1991	LW12	RDX		9.68++00	UGG
2.0	01-nov-1991	LW12	ROX		1.26++01	UGG
2.0	01-nov-1991	LW12	RDX		1.26e+01	UGG
40.0	02-nov-1991	LW12	RDX		1.26+01	UGG
10.0	02-nov-1991	LW12	ROX		2.80e+01	UGG
10.0	02-nov-1991	LW12	ROX		2.80e+01	UGG
25.0	02-nov-1991	LW12	RDX		3.00 e+ 01	UGG
25.0	02-nov-1991	LW12	RDX		3.00e+01	UGG
6.0	02-nov-1991	LW12	RDX		3.60e+01	UGG
6.0	02-nov-1991	LW12	RDX		3.60e+01	UGG
4.0	01-nov-1991	LW12	RDX		5.90 e+ 01	UGG
4.0 30.0	01-nov-1991	LW12	RDX		5.90e+01	UGG
	92-nov-1991	LW12	ROX		6.50e+01	UGG
30.0	02-nov-1991	LW12	RDX		6.50e+01	UGG
15.0 15.0	02-nov-1991	LW12	ROX		8.00e+01	UGG
20.0	02-nov-1991 02-nov-1991	LW12	XUX		8.00e+01	UGG
20.0	02-nov-1991	LW12	PDX		9.30 + 01	UGG
0.0	01-nov-1991	L¥12	ROX		9.30e+01	UGG
0.0	01-nov-1991	L¥12	TETRYL	LT	7.31e-01	UGG
2.0	01-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
2.0	01-nov-1991	LW12 LW12	TETRYL	LT	7.31e-01	UGG
4.0	01-nov-1991 01-nov-1991		TETRYL	LT	7.31e-01	UGG
4.0		LW12	TETRYL	LT	7.31e-01	UGG
6.0	01-nov-1991 02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
6.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
8.4	ו עלו "עסת" ש	LW12	TETRYL	LT	7.31e-01	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

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Site: BORE \$048007 (continued)

SAMPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••	********		•••••		**********	••••
8.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
8.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
10.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
10.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
15.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
15.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
20.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
20.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
25.0	02-nov-1991	LU12	TETRYL	LT	7.31e-01	UGG
25.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
30.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
30.0	02-nov-1991	LU12	TETRYL	LT	7.31a-01	UGG
35.0	02-nov-1991	LW12	TETRYL	LT	7.3:e-01	UGG
40.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
45.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
45.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG

Site: BORE \$048008

SAMPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••	*******		******	•-••	***********	
4.0	02-nov-1991	00	ALK		- 5.00e+01	UGG
0.0	02-nov-1991	90	ALK		5.40e+01	UGG
10.0	02-nov-1991	00	ALK		1.94e+02	UGG
0.0	02-nov-1991	90	PH		8.20e+00	
10.0	02-nov-1991	00	PH		8.30e+00	
4.0	02-nov-1991	00	PH		8.40e+00	
10.0	02-nov-1991	90	TOC		8.41++02	UGG
4.0	02-nov-1991	00	TOC		1.18e+03	UGG
0.0	02-nov-1991	60	TOC		1.93e+03	UGG
0.0	02-nov-1991	J801	KG	LT	5.00e-02	UGG
4.0	02-nov-1991	1801	HG	LT	5.00e-02	UGG
10.0	02-nov-1991	J801	MG	LT	5.00e-02	UGG
0.0	02-nov-1991	JD15	SE	LT	2.50a-01	UGG
4.0	02-nov-1991	JD15	SE	LT	2.50e-01	UGG
10.0	02-nov-1991	JD15	SE	LT	2.50e-01	USG
10.0	02-nov-1991	J017	P S		3.65e+00	UGS
4.0	02-nov-1991	J017	PE		3.71++00	UGG
0.0	02-nov-1991	JD17	PS		3.82e+00	UGG
0.0	02-nov-1991	J019	AS		9.70e-01	UGG
4.0	02-nov-1991	JD19	AS		1.18e+00	UGG
10.0	02-nov-1991	J019	AS		1.26e+00	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

SAMPLE	SAMPLE	TEST				
DEPTH (1		METHOD	COMPCUND	BOOL	CONCENTRATION	121170
*****	() DAIE	me:mas	CORPORD	BOOK	CONCENTRATION	UNITS
10.0	02-nov-1991	JS16	AG		1.06e+00	UGG
4.0	02-nov-1991	JS16	AG		1.46e+00	UGG
0.0	02-nov-1991	JS16	AG		1.48e+00	
4.0	02-nov-1991	JS16 JS16				UGG
10.0	02-nov-1991	J\$16 J\$16	AL		4.95e+03	UGG
0.0	02-nov-1991		AL.		5.15e+03	UGG
0.0	02-nov-1991	1216 1216	AL BA		5.53e+03	UGG
4.0	02-nov-1991				7.55e+01	UGG
10.0	02-nov-1991	J\$16	BA		7,74+01	UGG
10.0	02-nov-1991	J\$16	BA		9.99+01	UGG
4.0		JS16	38		2.04++00	UGG
0.0	02-nov-1991	J\$16	BE		2.22+00	UGG
	02-nov-1991	J\$16	8E		2.33++00	UGG
0.0	92-nov-1991	JS16	CA		5.93e+03	UGG
4.0	02-nov-1991	JS16	CA		8.42e+03	UGG
10.0	02-nov-1991	J\$16	CA		2.41e+04	UGG
0.0	02-nov-1991	JS16	CD.	LT	7.00e-01	UGG
4.0	02-nov-1991	J516	CD CD	LT	7.00e-01	UGG
10.0	02-nov-1991	J\$16	C	LT	7.00e-01	UGG
10.0	02-nov-1991	J\$16	œ		1.41 e+ 01	UGG
0.0	02-nov-1991	J\$16	CO		1.43e+01	UGG
4.0	02-nov-1991	JS16	CO .		1.47++01	UGG
10.0	02-nov-1991	J\$16	CR		5.39++00	UGG
4.0	02-nov-1991	J\$16	CR		7.76e+00	UGG
0.0	02-nov-1991	JS16	CR .		8.48e+00	UGG
4.0	02-nov-1991	J\$16	ᇜ		1.09e+01	UGG
0.0	02-nov-1991	J\$16	CI CI		1.17e+01	UGG
10.0	02-nov-1991	JS16	a		2.11e+01	UGG
10.0	02-nov-1991	J\$16	FE		2.31e+04	UGG
0.0	02-nov-1991	JS16	FE		2.60 ~ 04	UGG
4.0	02-nov-1991	J\$16	FE		2.63+04	UGG
10.0	02-nov-1991	J\$16	K		7,47e+02	UGG
4.0	02-nov-1991	318L	K		7.69 4+ 02	UGG
0.0	02-nov-1991	JS16	K		8.60++02	UCG
0.0	02-nov- 1991	1216	MG		4.69 e+ 03	UGG
4.0	02-nov-1991	J S 16	MG		5.21e+03	UGG
19.0	02-nov-1991	J\$16	MG		5.44+03	ugs
10.0	02-nov-1991	J S 16	PRN		3.860+03	UGG
0.0	02-nov-1991	J\$16	100		3.95 ↔ 02	UGG
4.0	02-nov-1991	J516	994		4.20e+02	UGG
4.0	02-nov-1991	JS16	MA		3.57 e+ 02	UGG
0.0	02-nov-1991	1216	MA		3.65e+02	UGG
10.0	02-nov-1991	J316	NA		3.89e+02	UGG
10.0	02-nov-1991	J\$16	HI		7.56e+00	UGS
0.0	02-nov-1991	JS16	MI		8.2E#+00	UGG
4.0	02-nov-1991	J\$16	NI		9.79++00	UGG
0.0	02-nov-1991	JS16	S8	LT	7.14e+00	UGG
4.0	02-nov-1991	J\$16	58	LT	7.14++00	UGG
10.0	02-nov-1991	J\$16	58	LT	7,14++00	UGG
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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAMPLE	SAIPLE	TEST				
DEPTH (ft) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••	********	•••••	******		**********	****
10.0	02-nov-1991	JS16	TL		2.56e+01	UGG
0.0	02-nov-1991	J\$16	TL		3.00e+01	UGG
4.0	02-nov-1991	J\$16	TL		3.12e+01	UGG
10.0	02-nov-1991	J\$16	٧		7.55e+01	UGG
0.0	02-nov-1991	J\$16	٧		9.02e+01	UGG
4.0	02-nov-1991	J\$16	٧		9.12e+01	UGG
10.0	02-nov-1991	312 L	ZN		4.37e+01	UGG
0.0	02-nov-1991	J\$16	ZW		5.51e+01	UGG
4.0	02-nov-1991	J\$16	ZN		5.51e+01	UGG
2.0	02-nov-1991	KF10	w. •			
4.0	02-nov-1991	KF10	NIT		6.18e-01	UGG
8.0	02-nov-1991	KF10	NIT		7.39e-01	UGG
0.0	02-nov-1991		HIT		1.22++00	UGG
50.0	03-nov-1991	KF10	HIT		1.51e+00	UGG
45.0	03-nov-1991	KF10	MIT		3.89e+00	UGG
35.ŭ	02-nov-1991	KF10	MIT		1.40e+01	UGG
40.0	02-nov-1991	KF10	MIT		3.00e+01	UGG
25.0	02-nov-1991	KF10 KF10	MIT		3.10e+01	UGG
10.0	02-nov-1991	KF10	HIT		3.20 e+ 01	UGG
30.0	02-nov-1991	KF10	MIT		3.40+01	UGG
15.0	02-nov-1991	KF10	NIT		3.60e+01	UGG
15.0	02-nov-1991	KF10	MIT		3.80e+01	UGG
20.0	02-nev-1991	KF10	NIT		4.40e+01	UGG
6.0	02-nov-1991	KF10	NIT		5.10 g+ 01	UGG
-	W 100 1771	KP 10	NIT	LT	6.00e-01	UGG
4.0	02-nov-1991	LH10	ABKC	LT	9.07e-03	UGG
10.9	02-nov-1991	LH10	ABHC	LT	9.070-03	UGG
4.0	02-nov-1991	LH10	AENSLF	LT	6.02e-03	UGG
10.0	02- nov- 1991	LH10	AENSLF	LT	6.02e-03	UGG
4.0	02-nov-1991	LH10	ALDRN	LT	7.29e-03	USG
10.0	02-nov-1991	LH10	ALDRN	LT	7.299-03	UGG
4.0	02-nov-1991	LH10	BBHC	LT	2.57e-03	UGG
10.0	02- nov- 1991	LH10	BBHC	LT	2.57e-03	UGG
4.0	02- nov- 1991	LH10	BENSLF	LT	6.63e-03	UGG
10.0	02-no: -1991	LH10	BENSLF	LT	6.63e-03	UGG
4.0	02-nev-1991	LH10	DBHC	LT	5.55e-03	UGG
10.0	02-nov-1991	LH10	DBHC	LT	5.55e-03	UGG
4.0	02-nov-1991	LH10	DLDRN	LT	6.29e-03	UGG
10.0	02-nov-1991	LH10	DLDRM	LT	6.290-03	UGG
4.0	02-nov-1991	LHIG	ENDRN	LT	6.57e-03	UGG
10.0	02-nov-1991	LH10	ENDRN	LT	6.57e-03	UGG
4.0	02-nov-1991	LH10	ENDRNA	LT	2.40e-02	UGG
10.0	02-nov-1991	LH10	EMORNA	LT	2.40e-02	UGG
4.0	02-nov-1991	LH10	ENDRNK	MD	2.4002	UGG
10.0	02-nov-1991	LH10	ENDRNK	MD	2.40e-02	UGG
4.0	02-nov-1991	LH10	ESFS04	LT	7.63e-03	UGG
10.0	02-nov-1991	LH10	ESFS04	LT	7.63e-03	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

DEPTH (Ft) DATE	SAMPLE	SAMPLE	TEST				
4.0 02-nov-1991 LH10 HPCL LT 6.18e-03 UGG 10.0 02-nov-1991 LH10 HPCL LT 6.20e-03 UGG 4.0 02-nov-1991 LH10 HPCLE LT 6.20e-03 UGG 4.0 02-nov-1991 LH10 HPCLE LT 6.20e-03 UGG 4.0 02-nov-1991 LH10 HPCLE LT 6.20e-03 UGG 4.0 02-nov-1991 LH10 LSDOR LT 4.61e-03 UGG 10.0 02-nov-1991 LH10 LIN LT 6.38e-03 UGG 4.0 02-nov-1991 LH10 LIN LT 6.38e-03 UGG 10.0 02-nov-1991 LH10 LIN LT 6.38e-03 UGG 4.0 02-nov-1991 LH10 MEXCLR LT 7.11e-02 UGG 4.0 02-nov-1991 LH10 MEXCLR LT 7.11e-02 UGG 4.0 02-nov-1991 LH10 MEXCLR LT 7.11e-02 UGG 4.0 02-nov-1991 LH10 PPODD LT 8.26e-03 UGG 4.0 02-nov-1991 LH10 PPODD LT 8.26e-03 UGG 4.0 02-nov-1991 LH10 PPODD LT 7.65e-03 UGG 10.0 02-nov-1991 LH10 PPODE LT 7.65e-03 UGG 4.0 02-nov-1991 LH10 TXPHEN LT 4.44e-01 UGG 4.0 02-nov-1991 LH10 TXPHEN LT 4.44e-01 UGG 4.0 02-nov-1991 LH10 TXPHEN LT 4.44e-01 UGG 4.0 02-nov-1991 LH16 PCB016 LT 6.66e-02 UGG 4.0 02-nov-1991 LH16 PCB021 MD 8.20e-02 UGG 10.0 02-nov-1991 LH16 PCB221 MD 8.20e-02 UGG 10.0 02-nov-1991 LH16 PCB222 MD 8.20e-02 UGG 4.0 02-nov-1991 LH16 PCB224 MD 8.20e-02 UGG 4.0 02-nov-1991 LH16 PCB224 MD 8.20e-02 UGG 4.0 02-nov-1991 LH16 PCB260 LT 8.04e-02 UGG 4.0 02-nov-1991 LH18 126CLB LT 4.00e-02 UGG 4.0 02-nov-1991 LH18 126CLB LT 1.10e-01 UGG 4.0 02-nov-1991 LH18 120CLB LT 1.10e-01 UGG 4.0 02-nov-1991 LH18 120CLB LT 1.10e-01 UGG 4.0 02-nov-1991 LH18 120CLB LT 1.10e-01 UGG 6.0 02-nov-1991 LH18 120CLB LT 1.10e-01 UGG 6.0 02-nov-1991 LH18 120CLB LT 1.10e-01 UGG 6.0 02-nov-1991 LH18 130CLB LT 1.30e-01 U	DEPTH (ft) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
10.0 02-nov-1991 LH10 HPCL LT 6.18e-03 UGG 4.0 02-nov-1991 LH10 HPCLE LT 6.20e-03 UGG 10.0 02-nov-1991 LH10 HPCLE LT 6.20e-03 UGG 4.0 02-nov-1991 LH10 HPCLE LT 6.20e-03 UGG 4.0 02-nov-1991 LH10 ISOOR LT 4.61e-03 UGG 4.0 02-nov-1991 LH10 LIN LT 6.38e-03 UGG 6.0 02-nov-1991 LH10 LIN LT 6.38e-03 UGG 6.0 02-nov-1991 LH10 LIN LT 6.38e-03 UGG 6.0 02-nov-1991 LH10 MEXCLR LT 7.11e-02 UGG 6.0 02-nov-1991 LH10 PP000 LT 8.26e-03 UGG 6.0 02-nov-1991 LH10 PP000 LT 8.26e-03 UGG 6.0 02-nov-1991 LH10 PP00E LT 7.65e-03 UGG 6.0 02-nov-1991 LH10 PP00E LT 7.65e-03 UGG 6.0 02-nov-1991 LH10 PP00T LT 7.07e-03 UGG 6.0 02-nov-1991 LH10 TXPHEN LT 6.46e-01 UGG 6.0 02-nov-1991 LH10 TXPHEN LT 6.46e-01 UGG 6.0 02-nov-1991 LH10 TXPHEN LT 6.66e-02 UGG 6.0 02-nov-1991 LH16 PC8016 LT 6.66e-02 UGG 6.0 02-nov-1991 LH16 PC8221 ND 8.20e-02 UGG 6.0 02-nov-1991 LH16 PC8222 ND 8.20e-02 UGG 6.0 02-nov-1991 LH16 PC8222 ND 8.20e-02 UGG 6.0 02-nov-1991 LH16 PC8242 ND 8.20e-02 UGG 6.0 02-nov-1991 LH16 PC8244 ND 8.20e-02 UGG 6.0 02-nov-1991 LH16 PC8245 ND 8.20e-02 UGG 6.0 02-nov-1991 LH16 PC8246 ND 8.20e-02 UGG 6.0 02-nov-1991 LH18 120CLB LT 1.10e-01 UGG 6.0 02-nov-1991 LH18 120CLB LT 1.10e-01 UGG	*****		•••••	••••••	• • • •	•••••	*****
4.0 02-nov-1991 LN10 HPCLE LT 6.20e-03 UGG 10.0 02-nov-1991 LN10 HPCLE LT 6.20e-03 UGG 4.0 02-nov-1991 LN10 ISOOR LT 4.61e-03 UGG 10.0 02-nov-1991 LN10 ISOOR LT 4.61e-03 UGG 6.0 02-nov-1991 LN10 LIN LT 6.38e-03 UGG 10.0 02-nov-1991 LN10 LIN LT 6.38e-03 UGG 10.0 02-nov-1991 LN10 MEXCLR LT 7.11e-02 UGG 10.0 02-nov-1991 LN10 PP000 LT 8.26e-03 UGG 10.0 02-nov-1991 LN10 PP000 LT 8.26e-03 UGG 10.0 02-nov-1991 LN10 PP00E LT 7.65e-03 UGG 10.0 02-nov-1991 LN10 PP00E LT 7.65e-03 UGG 10.0 02-nov-1991 LN10 PP00E LT 7.65e-03 UGG 10.0 02-nov-1991 LN10 PP00T LT 7.07e-03 UGG 10.0 02-nov-1991 LN10 PP00T LT 7.07e-03 UGG 10.0 02-nov-1991 LN10 PP00T LT 7.07e-03 UGG 10.0 02-nov-1991 LN10 TXPHEN LT 4.44e-01 UGG 10.0 02-nov-1991 LN10 TXPHEN LT 4.44e-01 UGG 10.0 02-nov-1991 LN10 TXPHEN LT 4.44e-01 UGG 10.0 02-nov-1991 LN16 PCB016 LT 6.66e-02 UGG 10.0 02-nov-1991 LN16 PCB21 NO 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB221 NO 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB22 NO 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB22 NO 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB24 NO 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB25 NO 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB25 NO 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB26 NO 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB25 NO 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB26 NO 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB26 NO 8.20e-02 UGG 10.0 02-nov-1991 LN18 126TCB LT 4.00e-02 UGG 10.0 02-nov-1991 LN18 126TCB LT 4.00e-02 UGG 10.0 02-nov-1991 LN18 120CLB LT 1.10e-01 UGG 10.0 02-nov-1991 LN18 120CLB LT 1.10e-01 UGG 10.0 02-nov-1991 LN18 120CLB LT 1.30e-01 UGG 10.0 02-no	4.0	02-nov-1991	LH10	HPCL	LT	6.18e-03	UGG
10.0 02-nov-1991 LN10 NPCLE LT 6.20=03 UGG 4.0 02-nov-1991 LN10 ISDOR LT 4.61=03 UGG 10.0 02-nov-1991 LN10 ISDOR LT 4.61=03 UGG 4.0 02-nov-1991 LN10 LIN LT 6.38=-03 UGG 4.0 02-nov-1991 LN10 LIN LT 6.38=-03 UGG 6.0 02-nov-1991 LN10 NEXCLR LT 7.11=-02 UGG 6.0 02-nov-1991 LN10 NEXCLR LT 7.11=-02 UGG 6.0 02-nov-1991 LN10 NEXCLR LT 7.11=-02 UGG 6.0 02-nov-1991 LN10 PPDDD LT 8.26=-03 UGG 6.0 02-nov-1991 LN10 PPDDD LT 8.26=-03 UGG 6.0 02-nov-1991 LN10 PPDDD LT 7.65=-03 UGG 6.0 02-nov-1991 LN10 PPDDE LT 7.65=-03 UGG 6.0 02-nov-1991 LN10 PPDDE LT 7.65=-03 UGG 6.0 02-nov-1991 LN10 PPDDT LT 7.07=-03 UGG 6.0 02-nov-1991 LN10 TXPHEN LT 4.44=-01 UGG 6.0 02-nov-1991 LN10 TXPHEN LT 4.44=-01 UGG 6.0 02-nov-1991 LN10 TXPHEN LT 6.66=-02 UGG 6.0 02-nov-1991 LN16 PCB016 LT 6.66=-02 UGG 6.0 02-nov-1991 LN16 PCB221 ND 8.20=-02 UGG 6.0 02-nov-1991 LN16 PCB221 ND 8.20=-02 UGG 6.0 02-nov-1991 LN16 PCB221 ND 8.20=-02 UGG 6.0 02-nov-1991 LN16 PCB222 ND 8.20=-02 UGG 6.0 02-nov-1991 LN16 PCB224 ND 8.20=-02 UGG 6.0 02-nov-1991 LN18 124TCB LT 4.00=-01 UGG 6.0 02-nov-1991 LN18 124TCB LT 4.00=-01 UGG 6.0 02-nov-1991 LN18 120LB LT 1.10=-01 UGG 6.0 02-nov-1991 LN18 120LB LT 1.10=-01 UGG 6.0 02-nov-1991 LN18 120LB LT 1.30=-01 UGG	10.0	02-nov-1991	LH10	HPCL	LT	6.18e-03	UGG
4.0 02-nov-1991 LN10 ISOOR LT 4.61e-03 UGG 10.0 02-nov-1991 LN10 LSOOR LT 4.61e-03 UGG 4.0 02-nov-1991 LN10 LIN LT 6.38e-03 UGG 10.0 02-nov-1991 LN10 LIN LT 6.38e-03 UGG 4.0 02-nov-1991 LN10 MEXCLR LT 7.11e-02 UGG 10.0 02-nov-1991 LN10 MEXCLR LT 7.11e-02 UGG 10.0 02-nov-1991 LN10 PPODO LT 8.26e-03 UGG 10.0 02-nov-1991 LN10 PPODO LT 8.26e-03 UGG 10.0 02-nov-1991 LN10 PPODO LT 7.65e-03 UGG 10.0 02-nov-1991 LN10 PPODE LT 7.65e-03 UGG 10.0 02-nov-1991 LN10 PPODE LT 7.65e-03 UGG 10.0 02-nov-1991 LN10 PPODE LT 7.65e-03 UGG 10.0 02-nov-1991 LN10 PPODT LT 7.07e-03 UGG 10.0 02-nov-1991 LN10 PPODT LT 7.07e-03 UGG 10.0 02-nov-1991 LN10 PPODT LT 7.07e-03 UGG 10.0 02-nov-1991 LN10 TXPMEN LT 4.44e-01 UGG 10.0 02-nov-1991 LN10 TXPMEN LT 4.44e-01 UGG 10.0 02-nov-1991 LN10 TXPMEN LT 4.64e-01 UGG 10.0 02-nov-1991 LN16 PCB016 LT 6.66e-02 UGG 4.0 02-nov-1991 LN16 PCB016 LT 6.66e-02 UGG 4.0 02-nov-1991 LN16 PCB016 LT 6.66e-02 UGG 10.0 02-nov-1991 LN16 PCB221 MD 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB221 MD 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB221 MD 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB222 MD 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB222 MD 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB222 MD 8.20e-02 UGG 10.0 02-nov-1991 LN16 PCB224 MD 8.20e-02 UGG 10.0 02-nov-1991 LN18 124TCB LT 4.00e-02 UGG 10.0 02-nov-1991 LN18 124TCB LT 4.00e-02 UGG 10.0 02-nov-1991 LN18 120CLB LT 1.10e-01 UGG 10.0 02-nov-1991 LN18 120CLB LT 1.10e-01 UGG 10.0 02-nov-1991 LN18 120CLB LT 1.30e-01 UG	4.0	02-nov-1991	LH10	HPCLE	LT	6.20e-03	UGG
10.0 02-nov-1991 LH10 ISOR LT 4.61e-03 UGG 4.0 02-nov-1991 LH10 LIN LT 6.38e-03 UGG 10.0 02-nov-1991 LH10 LIN LT 6.38e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.11e-02 UGG 4.0 02-nov-1991 LH10 MEXCLR LT 7.11e-02 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.65e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.65e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.65e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.67e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.07e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.07e-03 UGG 10.0 02-nov-1991 LH10 TXPHEN LT 4.44e-01 UGG 10.0 02-nov-1991 LH10 TXPHEN LT 4.44e-01 UGG 10.0 02-nov-1991 LH16 MEXCLR LT 4.44e-01 UGG 10.0 02-nov-1991 LH16 MEXELR LT 4.44e-01 UGG 10.0 02-nov-1991 LH18 124TCB LT 4.40e-02 UGG 10.0 02-nov-1991 LH18 124TCB LT 4.40e-02 UGG 10.0 02-nov-1991 LH18 124TCB LT 1.10e-01 UGG 10.0 02-nov-1991 LH18 120LB LT 1.10e-01 UGG 10.0 02-nov-1991 LH18 120LB LT 1.30e-01 UGG 10.0 02-nov-1991 LH18 130CLB LT 1.30e-01 UGG 10.0 02-nov-1991 LH18 130CLB LT 1	10.0	02-nov-1991	LH10	HPCLE	LT	6.20e-03	UGG
10.0 02-nov-1991 LH10 ISOR LT 4.61e-03 UGG 4.0 02-nov-1991 LH10 LIN LT 6.38e-03 UGG 10.0 02-nov-1991 LH10 LIN LT 6.38e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.11e-02 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.15e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.65e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.65e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.65e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.67e-03 UGG 10.0 02-nov-1991 LH10 MEXCLR LT 7.67e-03 UGG 10.0 02-nov-1991 LH10 TXPHEN LT 4.44e-01 UGG 10.0 02-nov-1991 LH10 TXPHEN LT 4.44e-01 UGG 10.0 02-nov-1991 LH16 MEXCLR LT 4.44e-01 UGG 10.0 02-nov-1991 LH18 124TCB LT 4.40e-02 UGG 10.0 02-nov-1991 LH18 124TCB LT 4.40e-02 UGG 10.0 02-nov-1991 LH18 124TCB LT 1.10e-01 UGG 10.0 02-nov-1991 LH18 120LB LT 1.10e-01 UGG 10.0 02-nov-1991 LH18 120LB LT 1.30e-01 UGG 10.0 02-nov-1991 LH18 130CLB LT	4.0	02-nov-1991	LH10	ISOUR	LT	4.619-03	
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10.0 02-nov-1991 LM18 12DCL8 LT 1.10e-01 UGG 0.0 02-nov-1991 LM18 12DPH MD 1.40e-01 UGG 4.0 02-nov-1991 LM18 12DPH ND 1.40e-01 UGG 10.0 02-nov-1991 LM18 12DPH ND 1.40e-01 UGG 0.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 4.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 10.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 10.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 0.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 0.0 02-nov-1991 LM18 13DCL8 LT 9.80e-02 UGG							
0.0 02-nov-1991 LM18 12DPH MD 1,40e-01 UGG 4.0 02-nov-1991 LM18 12DPH ND 1,40e-01 UGG 10.0 02-nov-1991 LM18 12DPH ND 1,40e-01 UGG 0.0 02-nov-1991 LM18 13DCL8 LT 1,30e-01 UGG 4.0 02-nov-1991 LM18 13DCL8 LT 1,30e-01 UGG 10.0 02-nov-1991 LM18 13DCL8 LT 1,30e-01 UGG 10.0 02-nov-1991 LM18 13DCL8 LT 1,30e-01 UGG 0.0 02-nov-1991 LM18 13DCL8 LT 9,80e-02 UGG							
4.0 02-nov-1991 LH18 12DPH NO 1.40e-01 UGG 10.0 02-nov-1991 LM18 12DPH NO 1.40e-01 UGG 0.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 4.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 10.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 0.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 0.0 02-nov-1991 LM18 14DCL8 LT 9.80e-02 UGG							
10.0 02-nov-1991 LM18 12DPH ND 1.40e-01 UGG 0.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 4.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 10.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 0.0 02-nov-1991 LM18 14DCL8 LT 9.80e-02 UGG							
0.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 4.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 10.0 02-nov-1991 LM18 13DCL8 LT 1.30e-01 UGG 0.0 02-nov-1991 LM18 14DCL8 LT 9.80e-02 UGG							
4.0 02-nov-1991 LM18 130CLB LT 1.30e-01 UGG 10.0 02-nov-1991 LM18 130CLB LT 1.30e-01 UGG 0.0 02-nov-1991 LM18 140CLB LT 9.80e-02 UGG			-				
10.0 02-nov-1991 LM18 130CLB LT 1.30e-01 UGG 0.0 02-nov-1991 LM18 140CLB LT 9.80e-02 UGG							
0.0 02-nov-1991 LH18 140CLB LT 9.80e-02 UGG							

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

SAMPLE	SAMPLE	TEST				
DEPTH (ft) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••	******	•••••				
10.0	02-nov-1991	LH18	14DCLB	LT	9.80e-02	UGG
0.0	02-nov-1991	LH18	245TCP	LT	1.00e-01	UGG
4.0	02-nov-1991	LH18	245TCP	LT	1.00e-01	UGG
10.0	02-nov-1991	LH18	245TCP	LT	1.00e-01	UGG
0.0	02-nov-1991	LM18	246TCP	LT	1.70e-01	UGG
4.0	02-nov-1991	LH18	246TCP	LT	1.70 a -01	UGG
10.0	02-nov-1991	LN18	246TCP	LT	1.70e-01	UGG
0.0	02-nov-1991	LH18	240CLP	LT	1.80e-01	UGG
4.0	02-nov-1991	LH18	24DCLP	LT	1.80e-01	UGG
10.0	02-nov-1991	LN18	240CLP	LT	1,80e-01	UGG
0.0	02-nov-1991	LH18	24DMPN	LT	6.90e-01	UGG
4.0	02-nov-1991	LH18	24DMPN	LT	6.90e-01	UGG
10.0	02-nov-1991	LN18	24DMPN	LT	6.90e-01	UGG
0.0	02-nov-1991	LH18	24DHP	LT	1,20e+00	UGG
4.0	02-nov-1991	LM18	24DNP	LT	1.20e+00	UGG
10.0	02-nov-1991	LH18	240NP	LT	1.20e+00	UGG
0.0	02-nov-1991	LH18	240NT		1.66e-01	UGG
10.0	02-nov-1991	LM18	240NT		1.35++00	UGG
4.0	02-nov-1991	LH18	240NT	LT	1.40e-01	UGG
0.0	02-nov-1991	LH18	260NT	LT	8.50e-02	UGG
4.0	02-nov-1991	LH18	260NT	LT	8.50e-02	UGG
10.0	02-nov-1991	LM18	260NT	LT	8.50e-02	UGG
0.0	02-nov-1991	LM18	2CLP	LT	6.00e-02	UGG
4.0	02-nov-1991	LH18	2CLP	LT	6.00e-02	UGG
10.0	02-nov-1991	LH18	2CLP	LT	6.00e-02	UGG
0.0	02- nov- 1991	LH18	2CNAP	LT	3.60e-02	UGG
4.0	02-nov-1991	LM18	2CHAP	LT	3.60e-02	UGG
10.0	02-nov-1991	LM18	2CHAP	LT	3.60e-02	UGG
0.0	02-nov-1991	LM18	2MMAP	ĻT	4.90e-02	UGG
4.0	02-nov-1991	LH18	2MMAP	LT	4.90e-02	UGG
10.0	02-nov-1991	LH18	2MNAP	LT	4.90e-02	UGG
0.0	02-nov-1991	LH18	2MP	LT	2.90e-02	UGG
4.0	02-nov-1991	LM18	2149	LT	2.90e-02	UGG
10.0	02-nov-1991	LH18	2HP	LT	2.90e-02	UGG
0.0	02-nov-1991	LM18	2MANTL	LT	6.20-02	UGG
4.0	02-nov-1991	LH18	2NAN1L	LT	6.20e-02	UGG
10.0	02-nov-1991	LM18	2NAN I L	LT	6.204-02	UGG
0.0	02-nov-1991	LN18	2NP	LT	1.40e-01	UGG
4.0	02-nov-1991	LM18	2NP	LT	1.40e-01	UGG
10.0	02-nov-1991	UH18	2NP	LT	1.40e-G1	UGG
0.0	02-nov-1991	LN18	330 C30	LT	6.30e+00	UGG
4.0	02-nov-1991	LM18	330C20	LT	6.30e+00	UGG
10.0	02-nov-1991	LH18	330C80	LT	6.30 ++ 00	UGG
0.0	02-nov-1991	LM18	3NAN1L	LT	4.50e-01	UGG
4.0	02-nov-1991	LM18	3MANIL	LT	4.50e-01	UGG
10.0	02-nov-1991	LH18	3MANTL	LT	4.50e-01	UGG
0.0	02-nov-1991	LM18	460N2C	LT	5.50e-01	UGG
4.0	02-nov-1991	LM18	46DH2C	LT	5.50e-01	UGG

Analytical Results for Chemical Soil

From: 31-ost-91 To: 19-mer-92

Site: SORE \$049008 (continued)

SAMPLE	SAMPLE	TEST				
DEPTH (1	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
	********			****	***********	
10.0	02-nov-1991	LH18	460N2C	LT	5.50e-01	UGG
0.0	02-nov-1991	LH18	4BRPPE	LT	3.30e-02	UGG
4.0	02-nov-1991	LH18	48RPPE	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	48RPFE	LT	3.30e-02	UCG
0.0	02-nov-1991	LN18	4CANIL	LT	8.10e-01	UGG
4.0	02-nov-1991	LM18	4CANIL	LT	8.10e-01	UGG
10.0	02-nov-1991	LM18	4CANIL	LT	8.10e-01	UGG
0.0	02-nov-1991	LM18	4CL3C	LT	9.50e-02	UGG
4.0	02-nov-1991	LM18	4CL3C	LT	9.50e-02	UGG
10.0	02-nov-1991	LM18	4CL3C	LT	9.50e-02	UGG
0.0	02-nov-1991	LH18	4CLPPE	LT	3.30e-02	UGG
4.0	02-nov-1991	LH18	4CLPPE	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	4CLPPE	LT	3.30e-02	UGG
0.0	02-nov-1991	LM18	410	LT	2.40e-01	UGG
4.0	02-nov-1991	LH18	4MP	LT	2.40e-01	UGG
10.0	02-nov-1991	LM18	4119	LT	2.40e-01	UGG
0.0	02-nov-1991	LH18	4MANIL	LT	4.10e-01	UGG
4.0	02-nov-1991	LM18	4MANIL	LT	4.10e-01	USG
10.0	02-nov-1991	LM18	4NANTL	LT	4.10e-01	UGG
0.0	02-nov-1991	LH18	4NP	LT	1.40 e+ 00	UGG
4.0	02-nov-1991	LM18	4NP	LT	1.60e+00	UGG
10.0	02-nov-1991	LM18	4NP	LT	1.40e+00	UGG
0.0	02-nov-1991	LH18	ABHC	MD	2.70e-01	UGG
4.0	02-nov-1991	LH18	ABHC	MO	2.70e-01	UGG
10.0	02-nov-1991	LM18	ABHC	MO	2.70e-01	UGG
0.0	02-nov-1991	LN18	ACLDAN	MD	3.30e-01	UGG
4.0	02-nov-1991	LM18	ACLDAN	ND	3.30e-01	UGG
10.0	02-nov-1991	LH18	ACLDAN	HO	3.30e-01	UGG
0.0	02-nov-1991	LM18	AENSLF	NO	6.20e-01	UGG
4.0	02-nov-1991	LN18	AENSLF	ND	6.2001	UGG
10.0	02-nov-1991	LM18	AENSLF	MD.	6.20e-01	UGG
0.0	02-nov-1991	LM18	ALDRE	NO	3.30e-01	UGG
4.0	02-nov-1991	LM18	ALDRM	MO	3.30e-01	UGG
10.0	02-nov-1991	LH18	ALDRN	NO	3.30e-01	UGG
0.0	02-nov-1991	LH18	ANAPHE	LT	3.60e-02	UGG
4.0	02-nov-1991	LHIS	ANAPHE	LT	3.60e-02	UGG
10.0	02-nov-1991	LM18	ANAPHE	LT	3.50e-02	UGG
0.0	02-ray-1991	LH18	ANAPYL	LT	3.30e-02	UGG
4.0	02-nov-1991	UH18	ANAPYL	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	ANAPYL	LT	3.30e-02	UGG
0.0	02-nov-1991	LM15	ANTRO	LT	3.30e-02	UGG
4.0	02-nov-1991	LH18	ANTRO	LT	3.30e-02	UGG
10.0	02-nov-1991	LM18	ANTRO	LT	3.30e-02	UGG
0.0	02-nov-1991	LM18	BZCEXM	LT	5.90e-02	UGG
4.0	02-nov-1991	LH18	BZCEXM	LT	5.90e-02	UGG
10.0	02-nov-1991	LH18	82CEXM	LT	5.90e-02	UGG
0.0	02-nov-1991	LM18	82CIPE	LT	2.00e-01	UGG
4.0	02-nov-1991	LH18	82CIPE	LT	2.004-01	UGG
	1771		******	• •	C. VVT VI	467

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From: 31-oct-91 To: 19-mar-92

SAMPLE	SAMPLE	TEST				
DEPTH (fi		METHOD	COMPOUND	BOOL	CONCENTRATION	14474
*****	*******	******	ton con	••••	TOTAL PARTY SONO	UNITS
10.0	02-nov-1991	LM18	B2C1PE	LT	2.00e-01	UGG
0.0	02-nov-1991	LH18	BZCLEE	LT	3.30e-02	UGG
4.0	02-nov-1991	LM18	BZCLEE	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	BZCLEE	LT	3.30e-02	UGG
0.0	02-nov-1991	LN18	BZEHP	LT	6.20e-01	UGG
4.0	02-nov-1991	LH18	BZEHP	LT	6.20e-01	UGG
10.0	02-nov-1991	LH18	BZEHP	LT	6.20e-01	UGG
0.0	02-nov-1991	LH18	BAANTR	LT	1.70e-01	UGG
4.0	02-nov-1991	LH18	BAAHTR	LT	1.7001	UGG ·
10.0	02-nov-1991	LH18	BAANTR	LT	1.70e-01	
0.0	02-nov-1991	LH18	BAPYR	LT	2.50e-01	UGG
4.0	02-nov-1991	1318	BAPYR	LT	2.50e-01	UGG
10.0	02-nov-1991	LH18	RAPYR	-		UGG
0.0	02-nov-1991	LH18	BBFANT	LT LT	2.50e-01	UGG
4.0	02-nov-1991	LX18	BBFANT		2.10e-01	000
10.0	02-nov-1991	LH18	BBFANT	LT	2.10e-01	UGG
0.0	02-nov-1991	LM18	BBHC	LT ND	2.10e-01	UGĞ
4.0	02-nov-1991	LM18	BBHC		2.70e-01	UGG
10.0	02-nov-1991	LM18	BSHC BBHC	NO NO	2.70e-01	UGG
0.0	02-nov-1991	LN18	88ZP		2.70e-01	UGG
4.0	02-nov-1991	LHIS	88ZP	LT LT	1.70e-01	UGG
10.0	02-nov-1991	LH18	882P	LT	1.70e-01	UGG
0.0	02-nov-1991	LH18	BENSLF	NO.	1.70e-01 6.20e-01	'JGG
4.0	02-nov-1991	LH18	BENSLF	NO NO	6.20e-01	UGG UGG
10.0	02-nov-1991	LH18	BENSLF	100	6.20 e -01	UGG
0.0	02-nov-1991	LM18	BENZID	#O	8.50e-01	UGG
4.0	02-nov-1991	LH18	BENZID	NED	8.50e-01	UGG
10.0	02-nov-1991	LH18	BENZID	ND	8.50e-01	UGG
0.0	02-nov-1991	LH18	BENZOA	NO	6.10e+00	UGG
4.0	02-nov-1991	LN18	BENZOA	MO	6.10 4+ 00	IJGC
10.0	02-nov-1991	LH18	BENZOA	MO	6.10e+00	UGG
0.0	02-nov-1991	LH18	SCHIPT	LT	2.50e-01	UGG
4.0	02-nov-1991	LH18	BGHIPY	LT	2.50-01	UGG
10.0	02-nov-1991	LH18	BGHIPY	LT	2.50e-01	UGG
0.0	02-nov-1991	LH18	BKFANT	LT	6.60e-02	UGG
4.0	02-nov-1991	LM18	BKFANT	LT	6.60e-02	UGG
10.0	02-nov-1991	LM18	BKFANT	LT	6.60e-02	UGG
0.0	02-nov-1991	LH18	BZALC	LT	1.90e-01	UGG
4.0	02-nov-1991	LH18	BZALC	LT	1.90e-01	UGG
10.0	02-nov-1991	LH18	BZALC	LT	1.90e-01	UGG
0.0	02-nov-1991	LH18	CXXX	LT	1.20e-01	UGG
4.0	02-nov-1991	LH18	CHRY	LT	1.2001	UGG
10.0	02-nov-1991	LH18	CHRY	LT	1.20e-01	UGG
0.0	02-nov-1991	LM18	CL68Z	LT	3.30e-02	UGG
4.0	02-nov-1991	LH18	CLSBZ	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	CL69Z	LT	3.30e-02	UGG
0.0	02-nov-1991	LM18	CL6CP	LT	6.20++00	UGG
4.0	02-nov-1991	LH18	CL6CP	LT	6.20 + 00	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

SAMPLE	SAMPLE	TEST				
DEPTH (1		METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
UEF1H (1	t/ UNIE	MEINOD	COMPOUND	500L	CONCERTRATION	ON115
10.0	02-nov-1991	LH18	CL6CP			
	02-nov-1991			LT	6.20e+00	UGG
0.0		LM18	CLÓET	LT	1.50e-01	UGG
4.0	02-nov-1991	LM18	CL6ET	LT	1.50e-01	UGG
10.0	02-nov-1991	LH18	CLEET	LT	1.50e-01	UGG
0.0	02-nov-1991	LM18	DBAHA	LT	2,10e-01	UGG
4.0	02-nov-1991	LM18	DBAHA	LT	2.10e-01	UGG
10.0	02-nov-1991	LM18	DBAHA	LT	2.10e-01	UGG
0.0	02-nov-1991	LH18	DBHC	ND	2.70e-01	UGG
4.0	02-nov-1991	LH18	DSHC	NO	2.70e-01	UGG
10.0	02-nov-1991	LM18	DBHC	MD	2.70e-01	UGG
0.0	02-nov-1991	LM18	DBZFUR	LT	3.50e-02	UGG
4.0	02-nov-1991	LM18	DEZFUR	LT	3.50e-02	UGG
10.0	02-nov-1991	LM18	DBZFUR	LT	3.50e-02	UGG
0.0	02-nov-1991	LH18	DEP	LT	2.40e-01	UGG
4.0	02-nov-1991	LM18	DEP	LT	2.40e-01	UGG
10.0	02-nov-1991	LM18	DEP	LT	2.40e-01	UGG
0.0	02-nov-1991	LM18	DLDRN	MO	3.10e-01	UGG
4.0	02-nov-1991	LH18	DLDRN	CK	3,10e-01	UGG
10.0	02-nov-1991	LM18	DLDRN	NO	3.10e-01	UGG
0.0	02-nov-1991	LM18	DMP	LT	1.70e-01	UGG
4.0	02-nov-1991	LH18	CMP	LT.	1.70e-01	UGG
10.0	02-nov-1991	LM18	DMP	LT	1.70e-01	UGG
0.0	02-nov-1991	LM18	DNSP	LT	6.10e-02	UGG
4.0	02-nov-1991	LH18	DNSP	LT	6.10e-02	UGG
10.0	02-nov-1991	LM18	CNBP	LT	6.10e-02	UGG
0.0	02-nov-1991	LH18	DNOP	LT	1,90e-01	UGG
4.0	02-nov-1991	LH18	DNOP	LT	1.90e-01	UGG
10.0	02-nov-1991	LM18	DHOP	LT	1.90e-01	UGG
0.0	02-nov-1991	LM18	ENORN	NO	4,50e-01	UGG
4.0	02-nov-1991	LH18	ENDRN	MD	4.50e-01	UGG
10.0	02-nov-1991	LM18	ENDRN	NO	4,50e-01	UGG
0.0	02-nov-1991	LM18	ENDRNA	ND	5.30e-01	UGG
4.0	02-nov-1591	LH18	ENDRNA	ND	5.30e-01	UGG
10.0	02-nov-1991	LM18	ENDRNA	ND	5.30e-01	UGG
0.0	02-nov-1991	LH18	ENDRNK	NO	5.30e-01	UGG
4.0	02-nov-1991	LH18	ENDRNK	NO NO	5.30e-01	
10.0	02-nov-1991	LM18	ENDRNK	HO	5.30e-01	UGG
0.0	02-nov-1991	LM18	ESFSO4			UGG
4.0	02-nov-1991	LM18		ND ND	6.20e-01	UGG
10.0	62-nov-1991	LM18	ESFS04	CK	6.20e-01	UGG
			ESFS04	NO.	6.20e-01	UGG
0.0	02-nov-1991	LM18	FANT	LT	6.80e-02	UGG
4.0	02-nov-1991	LM18	FANT	LT	6.80e-02	UGG
10.0	02-nev-1991	LM18	FANT	LT	6.80e-02	UGG
0.0	02-nov-1991	LM18	FLRENE	LT	3.30e-02	UGG
4.0	02-nov-1991	LX18	FLRENE	LT ·	3.30e-02	UGG
10.0	02-nov-1991	LM18	FLRENE	LT	3.30e-02	UGG -
0.0	02-nov-1991	LH18	GCLDAN	ND	3.30e-01	UGG
4.0	02-nov-1991	LM18	GCLDAN	ND	3.30e-01	UGG

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				,		
SAMPLE	SAMPLE	TEST				
DEPTH (ft) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••	••••••	•••••	•••••	••••	**********	••••
10.0	02-nov-1991	LH18	GCLDAN	CK	3.30e-01	UGG
0.0	02-nov-1991	LH18	HCBO	LT	2.30e-01	UGG
4.0	02-nov-1991	LM18	HCBD	LT	2.30e-01	UGG
10.0	02-nov-1991	LM18	HCSO	LT	2.30e-01	UGG
0.0	02-nov-1991	LH1S	HPCL	NO	1.30e-01	UGG
4.0	02-nov-1991	LH18	HPCL	ND	1.30e-01	UGG
10.0	02-nov-1991	LH18	HPCL	ND	1.30e-01	UGG
0.0	02-nov-1991	LM18	HPCLE	KD	3.30e-01	UGG
4.0	02-nov-1991	LN18	HPCLE	MC	3.30e-01	UGG
10.0	02-nov-1991	LH18	HPCLE	NO	3.30e-01	UGG
0.0	02-nov-1991	LM18	1 CDPYR	LT	2.90e-01	UGG
4.0	02-nov-1991	LH18	ICOPYR	LT	2.90e-01	UGG
10.0	02-nov-1991	LM18	ICOPYR	LT	2.90e-01	UGG
0.0	02-nov-1991	LH18	ISOPHR	LT	3.30e-02	UGG
4.0	02-nov-1991	LM18	ISOPHR	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	ISOPHR	LT	3.30e-02	UGG
0.0	02-nov-1991	LM18	LIN	MD	2.70e-01	UGG
4.0	02-nov-1991	LH18	LIN	MO	2.70e-01	UGG
10.0	02-nov-1991	LH18	LIN	NO	2.70e-01	UGG
0.0	02-nov-1991	LM18	MEXCLR	MD	3.30e-01	UGG
4.0	02-nov-1991	LH18	MEXCLR	MO	3.30e-01	UGG
10.0	02-nov-1991	LH18	MEXCLR	NO.	3.30e-01	UGG
0.0	02-nov-1991	LM18	NAP	LT	3.70e-02	UGG
4.0	02-nov-1991	LM18	HAP	LT	3.70e-02	UGG
10.0	02-nov-1991	UH18	HAP	LT	3.70e-02	UGG
0.0	02-nov-1991	LH18	NB	LT	4.50e-02	UGG
4.9	02-nov-1991	LM18	NB	LT	4.50e-02	UGG
10.0	02-nov-1991	LM18	MB	LT	4.50e-02	UGG
0.0	02-nov-1991	LM18	NNDMEA	MD	1.40e-01	UGG
4.0	02-nov-1991	LH18	NNDMEA	NO	1.40e-01	UGG
10.0	02-nov-1991	LM18	NNOMEA	MD	1.40e-01	UGG
0.0	02-nov-1991	LH15	HNDNPA	LT	2.00e-01	UGG
4.0	02-nov-1991	LH18	NNONPA	LT	2.00e-01	UGG
10.0	02-nov-1991	LM18	NNONPA	LT	2.00e-01	UGG
0.0	02-nov-1991	LH18	HNOPA	LT	1.90e-01	UGG
4.0	02-nov-1991	LH18	ARORA	LT	1.90e-01	UGG
10.0	02-nov-1991	LH18	NKOPA	LT	1.90e-01	UGG
0.0	02-nov-1991	LH18	PCB016	KD	1.40€+00	UGG
4.0	02-nov-1991	LH18	PC8016	MO	1.40++00	UGG
10.0	02-nov-1991	LM18	PC8016	XO.	1.40++00	UGG
0.0	02-nov-1991	LH18	PC8221	MO	1.40e+00	UGG
4.0	02-nov-1991	LM18	PCBZ21	NO	1.40 e+ 00	UGG
10.0	02-nov-1991	LM18	PC8221	MD	1.40++00	UGG
0.0	02-nov-1991	LM18	208232	ND	1.40€+00	UGG
4.0	02-nov-1991	LM18	PC8232	ND	1.40€00	UGG
10.0	02-nov-1991	LM18	PC8232	ND	1.40++00	UGG
0.0	02-nov-1991	LM18	PC8242	ND	1.40€+00	UGG
4.0	02-nov-1991	LM18	PC8242	ND	1.40 c- 00	UGG

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

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(continued)

SAMPLE	SAMPLE	TEST				
DEPTH (f	*	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
DEPIR (T	() DAIE	METHOU	COMPOUND	5000	CONCENTRATION	
10.0	02-nov-1991	LM18	PC8242	ND.	1.40e+00	UGG
0.0	02-nov-1991	LM18	PC8248	ND	2.00+00	UGG
4.0	02-nov-1991	LH18	PC8248	ND	2.00e+00	UGG
10.0	02-nov-1991	LH18	PCB248	ND	2.00e+00	UGG
0.0	02-nov-1991	LM18	PC8254	NO.	2.30e+00	UGG
4.0	02-nov-1991	LH18	PC8254	140	2.30e+00	UGG
10.0	02-nov-1991	LM18	PC8254	NO.	2.30e+00	UGG
0.0	02-nov-1991	LM18	PC8260	NO	2.60e+00	UGG
4.0	02-nov-1991	LH18	PC8260	NO	2.60e+00	UGG
10.0	02-nov-1991	LM18	PCB260	NO	2.60e+00	UGG
0.0	02-nov-1991	LM18	PCP	LT	1.30e+00	UGG
4.0	02-nov-1991	LM18	PCP	LT	1.30€+90	UGG
10.0	02-nov-1991	LH18	PCP	LT	1.30e+00	UGG
0.0	02-nov-1991	LM18	PHANTR	LT	3.30e-02	UGG
4.0	02-nov-1991	LH18	PHANTR	LT	3.30e-02	UGG
10.0	02-nov-1991	LH18	PHANTR	LT	3.30e-02	UGG
0.0	02-nov-1991	LM18	PHENOL	LT	1.10e-01	UGG
4.0	02-nov-1991	LM18	PHEXOL	LT	1.10e-01	UGG
10.0	02-nov-1991	LN18	PHENOL	LT	1.10e-01	UGG
0.0	02-nov-1991	LM18	PP000	ND	2.70e-01	UGG
4.0	02-nov-1991	LM18	PPDDD	NO	2.70e-01	UGG
10.0	02-nov-1991	LM18	PP000	NO	2.70e-01	UGG
0.0	02-nov-1991	LM18	PPODE	MO	3.10e-01	UGG
4.0	02-nov-1991	LH18	PPODE	MD	3.10e-01	UGG
10.0	02-nov-1991	LM18	PPDDE	MD	3.10e-01	UGG
0.0	02-nov-1991	LM18	PPOOT	NO	3.10e-01	UGG
4.0	02-nov-1991	LH18	PPOOT	KO	3.10e-01	UGG
10.0	02-nov-1991	LM18	PPOOT	NO	3.10e-01	UGG
0.0	02-nav-1991	LM18	PYR	LT	3.30e-02	UGG
4.0	02-nov-1991	LH18	PYR	LT	3.30e-02	UGG
10.0	02- nov- 1991	LH18	PYR	LT	3.30e-02	UGG
0.0	02-nov-1991	LM18	TXPHEN	NO	2.60++00	UGG
4.0	02-nov-1991	LM18	TXPHEN	HD	2.60e+00	UGG
10.0	02-nev-1991	LH18	TXPHEN	MO	2.60e+00	UGG
0.0	02-nov-1991	LH18	UNK517 +		3.11e-01	UGG
10.0	02-nov-1991	LM18	UNKS95		6.30↔00	UGG
4.0	02-nov-1991	LH18	UNK595 -		2.11e+01	UGG
0.0	02-nov-1991	LN18	UNK596		2.07+02	UGG
4.0	02-nov-1991	LH18	UNK632		5,29e-01	UGG
0.0	02-nov-1991	LM18	UNK645		4.15e-01	UGG
0.0	02-nov-1991	LM18	UMK659		1,04++00	USG
0.0	02-nov-1991	LM18	UNK669		3.11e+00	UGG
0.0	02-nov-1991	LM18	UNK681		3.11a+00	UGG
0.0	02-nov-1991	LM18	UNK695		3.11e+00	UGG
0.0	02-nov-1991	LM19	111TCE	LT	4,40e-03	UGG
4.0	02-nov-1991	LM19	111TCE	LT	4.40e-03	UGG
10.0	02-nov-1991	LM19	111TCE	LT	4.40e-03	UGG

[†]Chloroform *Trinitrotoluene

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SAMPLE	SAIPLE	TEST				
DEPTH (f		METHOD	COMPOUND	800L	CONCENTRATION	UNITS
•••••		******	********	••••	CONCENTRATION	04113
0.0	02-nov-1991	LH19	112TCE	LT	5.40e-03	UGG
4.0	02-nov-1991	LH19	112TCE	LT	5.40e-03	UGG
10.0	02-nov-1991	LN19	112TCE	LT	5.40e-03	UGG
0.0	02-nov-1991	LH19	11DCE	LT	3.90e-03	UGG
4.0	02-nov-1991	LH19	11002	LT	3.90e-03	UGG
10.0	02-nov-1991	LH19	110CE	LT	3.90e-03	UGG
0.0	02-nov-1991	LH19	11DCLE	LT	2.30e-03	UGG
4.0	02-nov-1991	LH19	11DCLE	LT	2.30e-03	UGG
10.0	02-nov-1991	LH19	110CLE	LT	2.30e-03	UGG
0.0	02-nov-1991	LM19	12005	LT	3.00e-03	UGG
4.0	02-nov-1991	LH19	120CE	LT	3.00e-03	
10.0	02-nov-1991	LH19	120CE	LT	3.00e-03	UGG
0.0	02-nev-1991	LM19	120CLE	LT		UGG
4.0	02-nov-1991	LM19	120CLE	LT	1.70e-03 1.70e-03	UGG
10.0	02-nov-1991	LH19	120CLE	LT		UGG
0.0	02-nov-1991	UN19	120CLP		1.70e-03	UGG
4.0	02-nov-1991	LH19	120CLP	LT LT	2.90e-03	UGG
10.0	02-nov-1991	LM19			2.90e-03	UGG
0.0	02-nov-1991	U119	120CLP 2CLEVE	LT	2.900-03	UGG
4.0	02-nov-1991	U119	SCFEAE	MD MD	1.00e-02	UGG
10.0	02-nov-1991	LH19	SCLENE	ND ND	1.00e-02	UGG
0.0	02-nov-1991	LH19	ACET		1.00e-02	UGG
4.0	02-nov-1991	LM19	ACET	LT	1.70e-02	UGG
10.0	02-nov-1991	LM19	ACET	LT LT	1.70e-02	UGG
0.0	02-nov-1991	LM19	ACROLN		1.70e-02	UGG
4.0	02-nov-1991	LH19	ACROLN	MD MD	1.00e-01 1.00e-01	UGG
10.0	02-nov-1991	LH19	ACROLM	NO NO		UGG
0.0	02-nov-1991	UH19	ACRYLO	NO NO	1.00e-01 1.00e-01	UGG
4.0	02-nov-1991	LH19	ACRYLO	NO NO	1.00e-01	UGG
10.0	02-nov-1991	LH19	ACRYLO	NO.	4	
0.0	02-nov-1991	LH19	BRDCLM	LT	1.00e-01 . 2.90e-03	UGG
4.0	02-nov-1991	LH19	BRDCLM	LT	2.90e-03	UGG
10.0	02-nov-1991	LH19	BROCLH	LT	2.90e-03	UGG UGG
0.0	02-nov-1991	LH19	C130CP	LT	3.20e-03	
4.0	02-nov-1991	UI19	C130CP	LT	3.20e-03	UGG
10.0	02-nov-1991	LH19	C130CP	LT	3.20e-03	UGG
0.0	02-nov-1991	LH19	CZAVE	LT	3.20e-03	UGG
4.0	02-nov-1991	LH19	CZAVE	LT	3.20e-03	UGG
10.0	02-nov-1991	LH19	CZAVE	LT	3.20e-03	UGG
0.0	02-nov-1991	L#19	C2H3CL	LT	6.20e-03	UGG
4.0	02-nov-1991	LH19	CZH3CL	LT		UGG
10.0	02-nov-1991	LH19	CZH3CL	LT	6.20e-03 5.20e-03	UGG
0.0	02-nov-1991	LH19	C2H5CL	LT	1.20e-02	UGG
4.0	02-nov-1991	LH19	CZHSCL	L7	1.20e-02 1.20e-02	UGG
10.0	02-nov-1991	LH19	CZHSCL	LT	1.20e-02	UGG UGG
0.0	02-nov-1991	LH19	CóHó	LT	1.50e-03	UGG
4.0	02-nov-1991	LH19	C6H6	LT	1.50e-03	UGG
10.0	02-nov-1991	LH19	C6H6	LT	1.50e-03	UGG
• •		Set 17		L 1	1.304-03	بالالان

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Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

				•		
SAMPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
•••••		•••••	******		***********	••••
0.0	02-nov-1991	LH19	CCL3F	LT	5.90e-03	UGG
4.0	02-nov-1991	LH19	CCL3F	LT	5.90e-03	UGG
10.0	02-nov-1991	LH19	CCL3F	LT	5.90e-03	UGG
0.0	02-nov-1991	LM19	CCL4	LT	7.00e-03	UGG
4.0	02-nov-1991	LH19	CCL4	LT	7.00e-03	UGG
10.0	02-nov-1991	LM19	CCL4	LT	7.00e-03	UGG
0.0	02-nov-1991	LH19	CH2CL2	LT	1.20e-02	UGG
4.0	02-nov-1991	LN19	CH2CL2	LT	1.20e-02	UGG
10.0	02-nov-1991	LN19	CH2CL2	LT	1.20e-02	UGG
0.0	02-nov-1991	LH19	CH3BR	LT	5.70e-03	UGG
4.0	D2-nov-1991	LM19	CH38R	LT	5.70e-03	UGG
10.0	02-nov-1991	LH19	CH3BR	LT	5.70e-03	UGG
0.0	02-nov-1991	LH19	CH3CL	LT	8.50e-03	UGG
4.0	02-nov-1991	LM19	CH3CL	LT	8.80e-03	UGG
10.0	02-nov-1991	LH19	CH3CL	LT	8.80e-03	UGG
0.0	02-nov-1991	LH19	CHBR3	LT	6.90e-03	UGG
4.0	02-nov-1991	LM19	CHBR3	LT	6.90w-03	UGG
10.0	02-nov-1991	LM19	CHBR3	LT	6.90e-03	UGG
0.0	02-nov-1991	LM19	CHCL3	LT	8.70e-04	UGG
4.0	02-nov-1991	LM19	CHCL3	LT	8.70e-04	UGG
10.0	02-nov-1991	. LM19	CHCL3	LT	8.70e-04	UGG
0.0	02-nov-1991	LH19	CL2BZ	NO	1.00e-01	UGG
4.0	02-nov-1991	LH19	CL2BZ	MD	1.00e-01	UGG
10.0	02-nov-1991	LN19	CL28Z	MD	1.00e-01	UGG
0.0	02-nov-1991	LH19	CLC6H5	L7	8.60e-04	UGG
4.0	02-nov-1991	LM19	CLC6H5	LT	8.60a-04	UGG
10.0	02-nov-1991	LH19	CLC6H5	LT	8.60e-04	UGG
0.0	02-HOV-1991	LM19	CS2	LT	4.40e-03	UGG
4.0	02-nov-1991	LH19	CS2	LT	4.40a-03	UGG
	02-nov-1991	LH19	CS2	LT	4.40e-03	UGG
0.0	02-nov-1991	LH19	DBRCLM	LT	3.10e-03	UGG
4.0	02-nov-1991	LM19	DBRCLM	LT	3.10e-03	UGG
10.0	02-nov-1991	LM19	DBRCLM	L7	3.10e-03	UGG
0.0	02-nov-1991	LH19	ETC6H5	LT	1.70e-03	uca
4.0	02-nov-1991	LH19	ETC6H5	LT	1.70e-03	UGG
	·02-nov-1991	LH19	ETC6H5	LT	1.70e-03	UGG
0.0	02-nov-1991	· LH19	MECANS .	LT	7.802-04	UGG
4.0	02-nov-1991	LH19	MEC6H3	LT	7.80e-04	UGG
10.0	02-nov-1991	LM19	MEC6H5	LT	7.50e-04	UGG
0.0	02-nov-1991	LM19	MEK	LT	7.00e-02	UGG
4.0	02-nov-1991	LH19	MEK	LT	7.00e-02	UGG
10.0	02-nov-1991	LM19	MEK	LT	7.00e-02	UGG
0.0	02-nov-1991	LH19	MIBK	LT	2.70e-02	UGG
4.0	02-nov-1991	LM19	MIBK	LT	2.70e-02	UGG
10.0	02-nov-1991	LM19	MISK	LT	2.70e-02	UGG
0.0	02-nov-1991	LM19	MNBK	LT	3.20e-02	UGG
4.0	02-nov-1991	LH19	MNSK	LT	3.20e-02	UGG
10.0	02-nov-1991	LH19	MNBK	LT	3.20e-02	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

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(continued)

SAMPLE	SAMPLE	TEST				
DEPTH (ft) DATE	METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
*****	********		*******	••••	**********	•••••
0.0	02-nov-1991	LM19	STYR	LT	2.60e-03	UGG
4.0	02-nov-1991	LM19	STYR	LT	2.60e-03	UGG
10.0	02-nov-1991	LH19	STYR	LT	2.60e-03	UGG
0.0	02-nov-1991	LH19	T130CP	LT	2.80e-03	UGG
4.0	02-nov-1991	LM19	T130CP	LT	2.80e-03	UGG
10.0	02-nov-1991	LM19	T130CP	LT	2.80e-03	UGG
0.0	02-nov-1991	LH19	TCLEA	LT	2.40e-03	UGG
4.0	02-nov-1991	LH19	TCLEA	LT	2.40e-03	UGG
10.0	02-nov-1991	LM19	TCLEA	LT	2.40e-03	UGG
0.0	02-nov-1991	LH19	TCLEE	LT	8.10e-04	UGG
4.0	02-nov-1991	LM19	TCLEE	LT	8.10e-04	UGG
10.0	02-nov-1991	LH19	TCLEE	LT	8.10e-04	UGG
0.0	02-nov-1991	LH19	TRCLE	LT	2.80e-03	UGG
4.0	02-nov-1991	LH19	TRCLE	LT	2.80e-03	
10.0	02-nov-1991	LH19	TRCLE	LT	2.80e-03	USG
0.0	02-nov-1991	LH19	XYLEN	LT	1.50e-03	UGG
4.0	02-nov-1991	LH19	XYLEN	LT	1.50e-03	UGG
10.0	02-nov-1991	LH19	XYLEN	LT	1.50e-03	UGG
		• • • • • • • • • • • • • • • • • • • •	A165A	ς,	1.304-03	UGG
2.0	02-nev-1991	LW12	135148		8.35++00	UCG
8.0	02-nov-1991	LW12	135THB		9.29++00	· UGG
10.0	02-nov-1991	LW12	135TNB		1.30e+01	UGG
4.0	02-nov-1991	LW12	1357NB		1.37++01	UGG
6.0	02-nov-1991	LU12	1357NB		1.53e+01	UGG
15.0	02-nov-1991	LW12	135THB		1.78+01	UGG
15.0	02-nov-1991	LW12	135TNB		1.79+01	UGG
50.0	03-nov-1991	LW12	135TNB		1.90e+01	UGG
0.0	02-nov-1991	LW12	135THB		2.00e+01	UGG
30.0	02-nov-1991	LW12	135THB		2.17e+01	UCS
20.0	02-nov-1991	LW12	135TMB		2.70e+01	UGG
40.0	02-nov-1991	LW12	135THB		3.50 e+ 01	UGG
45.0	05-nov-1991	LY12	135TN8		3.60e+01	UGG
25.0	02-nov-1991	LV12	135TH 8		4.00e+01	UGG
35.0	02-nov-1991	LW12	135TNB		4.00 0+ 01	UGG
0.0	02-nov-1991	LW12	130NB	LT	4.96e-01	UGG
2.0	02-nov-1991	LW12	130NB	ĻŤ	4.964-07	UGG
4.0	02-nov-1991	LH1Z	130MB	LT	4.964-01	UGG
6.0	02-nov-1991	LW12	130MB	LT	4.964-01	UGG
8.0	02-nav-1991	LW12	130MB	LT	4.9 6e -01	UGG
10.0	02-nov-1991	LW12	130NB	LT	4.96e-01	UGG
15.0	02-nov-1991	LW12	130HE	LT	4.964-01	UGG
15.0	02-nov-1591	LW12	13DNB	LT	4.96e-01	UGG
20.0	02-nov-1991	L¥12	130×8	ĻŤ	4.96e-01	UGG
25.0	02-nov-1991	LW12	130HB	LT	4.96e-01	UGG
30.0	02-nov-1991	LU12	130HB	LT	4.96e-01	UGG
35.0	02-nov-1991	LW1Z	130NB	LT	4.964-01	UGG
40.0	02-nov-1991	LW12	130NB	LT	4.95e-01	UGG
45.0	03-nov-1991	LW12	130NE	LT	4.96e-01	UGG

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SAMPLE	SAMPLE	TEST				
			2011001110	2001		
DEPTH (ft) DATE	METHOD	COMPOUND	BCOL	CONCENTRATION	UNITS
******	47 4004	4444	47000			
50.0	03-nov-1991	LW12	130NB	LT	4.96e-01	UGG
8.0	02-nov-1991	LW12	246THT		6.12e-01	UGG
6.0	02-nov-1991	LW12	246THT		1.99++00	UGG
15.0	02-nov-1991	LW12	246TNT		7.17e+00	UGG
30.0	02-nov-1991	LW12	246TNT		7.68e+00	UGG
15.0	02-nov-1991	LW12	246TNT		7.85e+00	UGG
10.0	02-nov-1991	LW12	246THT		8.03++00	UGG
20.0	02-nov-1991	LW12	246TNT		1.14e+01	UGG
2.0	02-nov-1991	LW12	246TNT		1.39e+01	UGG
50.0	03-nov-1991	L¥12	246TNT		1.51 e+ 01	UGG
4.0	02-nov-1991	LW12	246THT		1.97 e+ 01	UGG
45.0	03-mv-1991	LW12	246THT		1.97 e+ 01	UGG
25.0	02-nov-1991	LW12	246TNT		2.50e+01	UGG
35.0	02-nov-1991	LW12	246THT		2.90e+01	UGG
40.0	02-nov-1991	LW12	246TNT		3.80++01	UGG
0.0	02-nov-1991	L¥12	246TNT		7.40e+02	UGG
10.0	02-nov-1991	LW12	240HT		2.18e+00	UGG
50.0	03-nov-1991	LW12	24DNT		2.29++00	UGG
15.0	02-nov-1991	LW12	24DNT		2.51e+00	UGG
15.0	02-nov-1991	LW12 .	240NT		2.54++00	UGG
30.0	02-nov-1991	LW12	240NT		· 2.62e+00	UGG
45.0	03-nov-1991	LW12	24DNT		3.37e+00	UGG •
35.0	02-nov-1991	LW12	240NT		3.75e+00	UGG
20.0	02-nov-1991	LW12	240NT		4.30 e+ 00	UGG
40.0	02-nov-1991	LW12	240NT		4.41 e+ 00	UGG
25.0	02-nov-1991	LW12	240NT		6.90e+00	UGG
0.0	02-nov-1991	LW12	240NT	LT	4.24e-01	UGG
2.0	02-nov-1991	LW12	240NT	LT	4.24e-01	UGG
4.0	02-nov-1991	LW12	24DNT	LT	4.24e-01	UGG
6.0	02-nov-1991	LW12	240NT	LT	4.244-01	UGG
8.0	02-nov-1991	LW12	240NT	LT	4.244-01	UGG
0.0	02-nov-1991	LW12	26DNT	LT	5.24e-01	UGG
2.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
4.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
6.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
8.0	02-nov-1991	LW12	260NT	LT	5.24<-01	UGG
10.0	02-nov-1991	LW12	ZGONT	LT	5.244-01	UGG
15.0	02-nov-1991	LW12	26DNT	LT	5.24e-01	UGG
15.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
25.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
30.0	02-nov-1991	LW12	26DNT	LT	5.24e-01	UGG
35.0	02-nov-1991	L¥12	260NT	LT	5.24e-01	UGG
40.0	02-nov-1991	LW12	260NT	LT	5.24e-01	UGG
45.0	03-nov-1991	LW12	260NT	LT	5.24e-01	UGG
50.0	03-nov-1991	LW12	260NT	LT	5.24e-01	UGG
10.0	02-nov-1991	LW12	HMX		1.60=+00	UGG
15.0	02-nov-1991	LW12	HMX		1.84++00	UGG

Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mer-92

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SAMPLE	SAMPLE	TEST				
DEPTH (1		HETHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
*****	********	•••••	*******		CONCENTRATION	OM113
15.0	02-nov-1991	LU12	HMX ·		2.05 ↔ 00	UGG
30.0	02-nov-1991	LU12	HHCX		2.20++00	UGG
20.0	02-nov-1991	LW12	HMCK		2.84++00	UGG
35.0	02-nov-1991	LW12	HMX		6.04++00	uee
25.0	02-nov-1991	LW12	HACK		6.56e+00	UGG
50.0	03-nov-1991	LW12	HMDC		7.93e+00	UGG
40.0	02-nov-1991	LW12	HMX		9.37e+00	UGG
0.0	02-nov-1991	LW12	HMCX		9.83++00	UGG
45.0	03-nov-1991	LW12	HMDX		1.56e+01	UGG
2.0	02-nov-1991	LW12	HACK	LT	6.66e-01	UGG
4.0	02-nov-1991	LW12	HMX	LT	6.66e-01	UGG
6.0	02-nov-1991	LW12	1:MX	LT	á,66e-01	UGG
8.0	02-nov-1991	LU12	них	LT	6.66e-01	UGG
0.0	02-nov-1991	LW12	NB	LT	2.41=+60	UGG
2.0	02-nov-1991	LW12	MB	LT	2.410+00	UGG
4.0	02-nov-1991	LW12	KB	LT	2.41++00	UGG
6.0	02-nov-1991	LW12	NB	LT	2.41++00	UGG
8.0	02-nov-1991	LW12	2K	LT	2.41e+00	UGG
10.0	02-nov-1991	LW12	NS.	LT	2.41++00	UGG
15.0	02-nov-1991	LW12	NS.	LT	2.41e+00	uec ·
15.0	02-nov-1991	LW12	HB	LT	2-41e+00	UGG
20.9	02-nov-1991	LW12	M8	LT	2.41++00	UGG
25.0	02-nov-1991	LW12	M8	LT	2.41++00	UGG
30.0	02-nov-1991	LW12	MS	LT	2.41 ↔ 00	UGG
35.0	02-nov-1991	LW12	MB	LT	2.41e+00	UGG
40.0	02-nov-1991	LW12	NS	LT	2.41++00	UGG
45.0	03-nov-1991	LW12	NB	LT	2.41e+00	UGG
50.0	03-nov-1991	LW12	NS.	LT	2.41++00	UGG
6.0	02-nov-1991	LW12	RDX		1.67++00	UGG
2.0	02-nov-1991	LW12	ROX		1.73++00	UGG
10.0	02-nov-1991	LW12	RDX		2.13e+00	UGG
45.0	03-nov-1991	LW12	ROX		3.91++00	UGG
30.0	02-nov-1991	LW12	RDX		7.26e+00	UGG
15.0 15.0	02-nov-1991	LW12	ROX		1.09 e+ 01	UGG
35.0	02-nov-1991	L¥12	RDX		1.11 e+ 01	UCG
0.0	02-nev-1991	LW12	ROX		1.14++01	UGG
20.0	02-nov-1991	LW12	RDX		1.34e+01	UGG
	02-nov-1991	LW12	ROX		1.52 ++ 01	UGG
40.0	02-nov-1991	LW12	RCX		2.31 ↔ 01	UGG
25.0 4.0	02-nov-1991	LW12	ROX		2.90e+11	UGG
8.0	02-nov-1991 02-nov-1991	LV12	ROX	LT	5.87e-01	UGG
50.0	02-nov-1991 03-nov-1991	LW12	ROX	LT	5.87e-01	UGG
0.0	03-nov-1991	LW12	ROX	LT	5.87e-01	UGG
2.0	02-nov-1991 02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
4.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
6.0	02-nov-1991	LW12	TETRYL	LT	7.310-01	UGG
8.0	02-nov-1991	L¥12	TETRYL	LT	7.31e-01	UGG
0.0	AC. MOA. IAA I	LW12	TETRYL	LT	7.31e-01	UGG

Mar 19, 1992

Installation: Umatilia AD

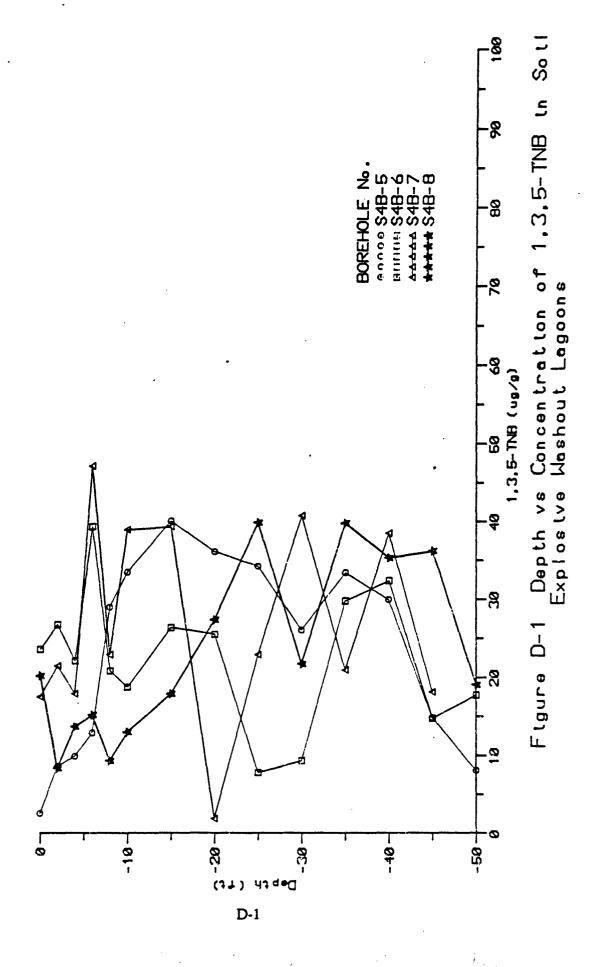
Analytical Results for Chemical Soil From: 31-oct-91 To: 19-mar-92

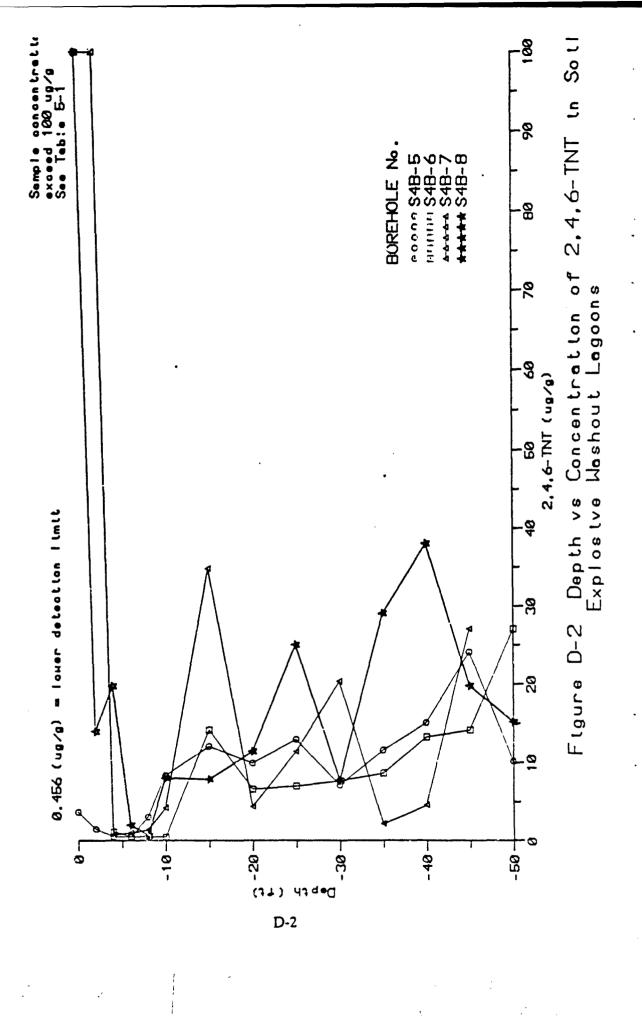
Site: BORE S048008 (continued)

SAMPLE	SAMPLE	TEST				
DEPTH (f	t) DATE	METHOD	CCMPOUND	BCOL	CONCENTRATION	UNITS
•••••	•••••	*****	*******	••••	**********	••••
10.0	02-nov-1991	-LW12	TETRYL	LT	7.31e-01	UGG
15.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
15.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
20.0	02-nov-1991	LW12	TETRYL	LT	7.31e-91	UGG
25.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
30.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
35.0	02-nov-1991	LW12	TETRYL	LT	7.3!e-01	UGG
40.0	02-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
45.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG
50.0	03-nov-1991	LW12	TETRYL	LT	7.31e-01	UGG

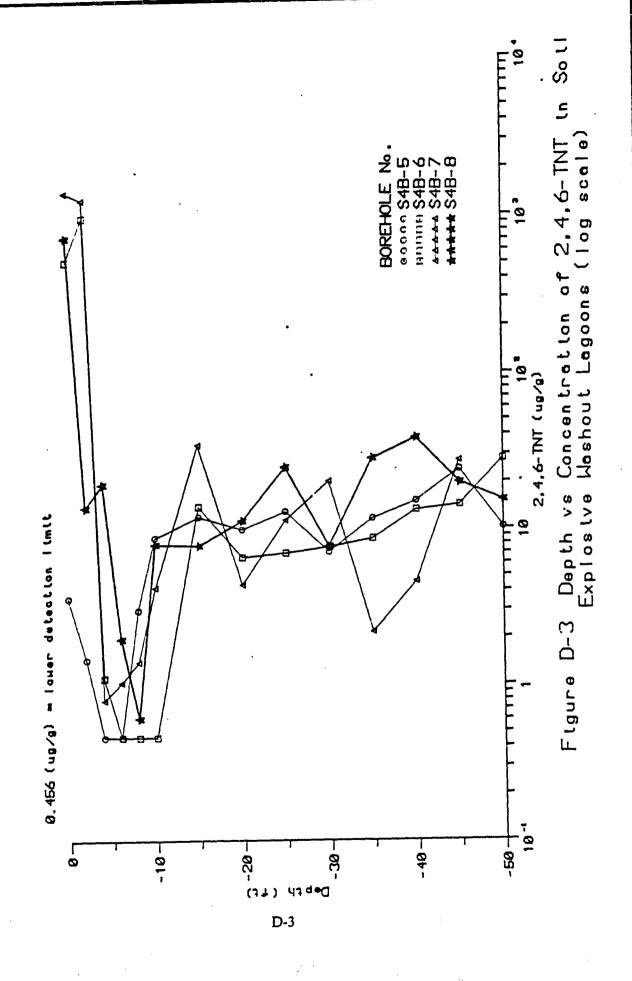
Report completed normally.

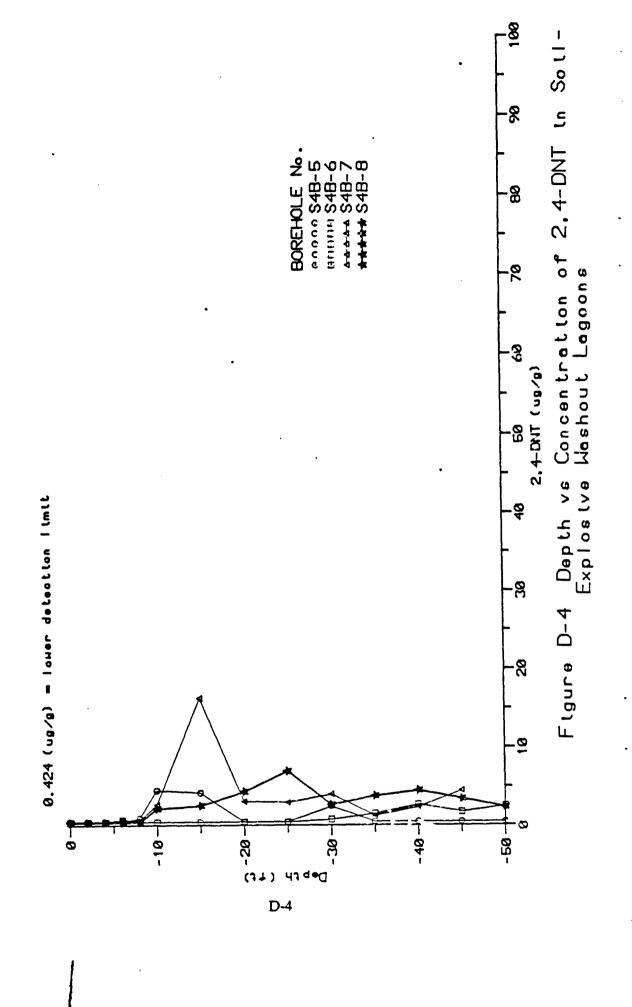
Appendix D
Concentration of Contaminants
vs. Depth in Soils

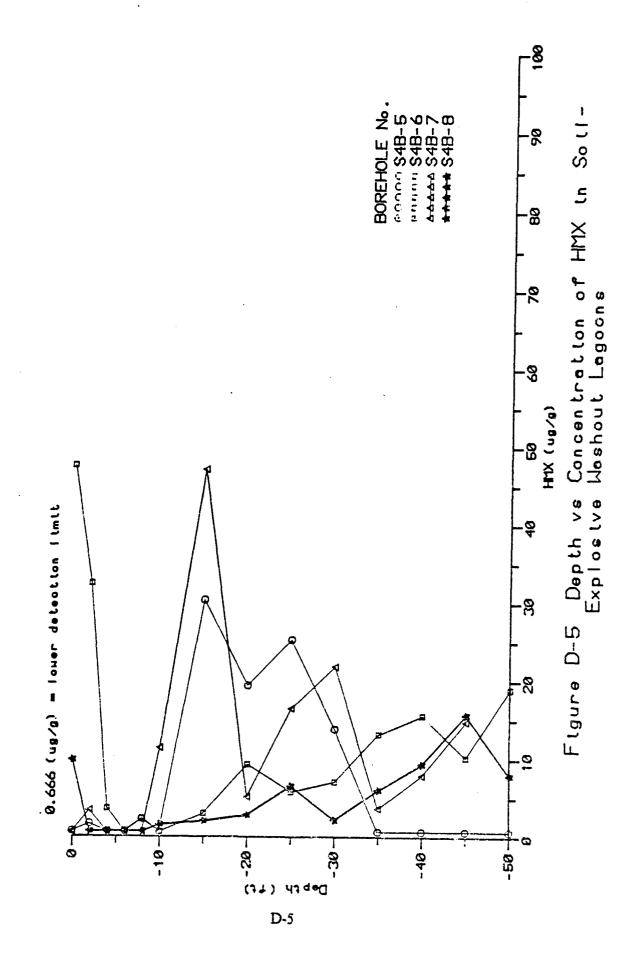


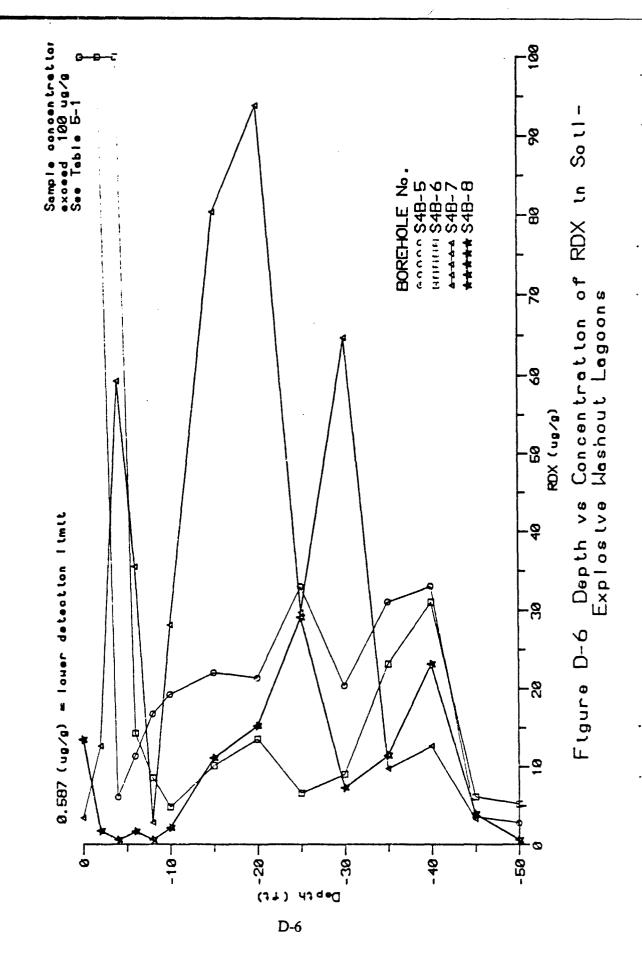


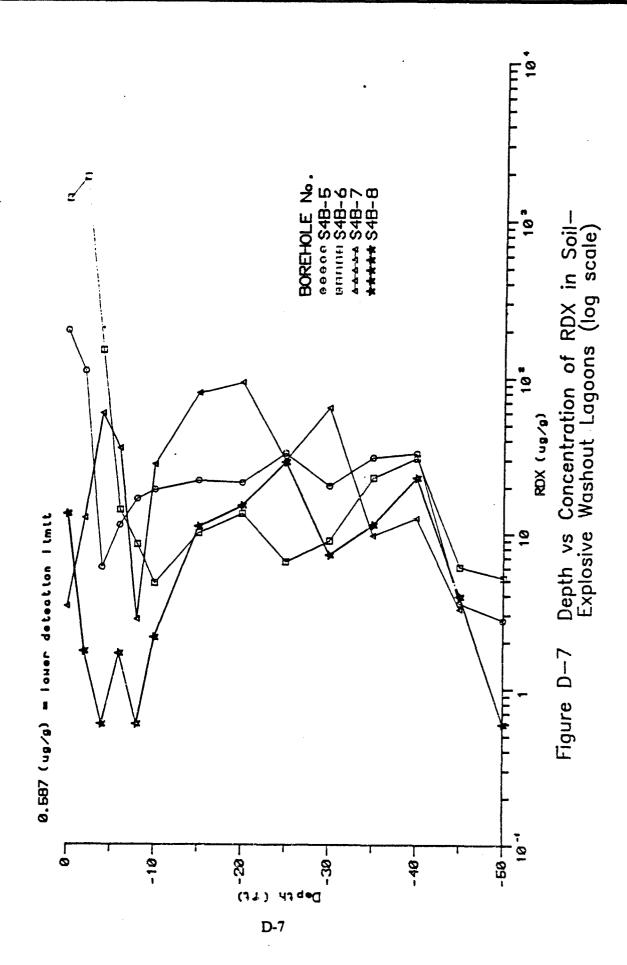
は一般では、一般では、これでは、これでは、一般では、一般である。 「他のない」とは、「他のない」というできない。 「ないない」というできない。 「他のない」というできない。 「他のない」」というできない。 「他のない」というできない。 「他のない」というできない。 「他のない」」 「他のない」」 「他のない」」 「他のない」 「他のない」 「他のない」 「他のない」」 「他のない」」 「他のない」 「他のない」」 「他のな

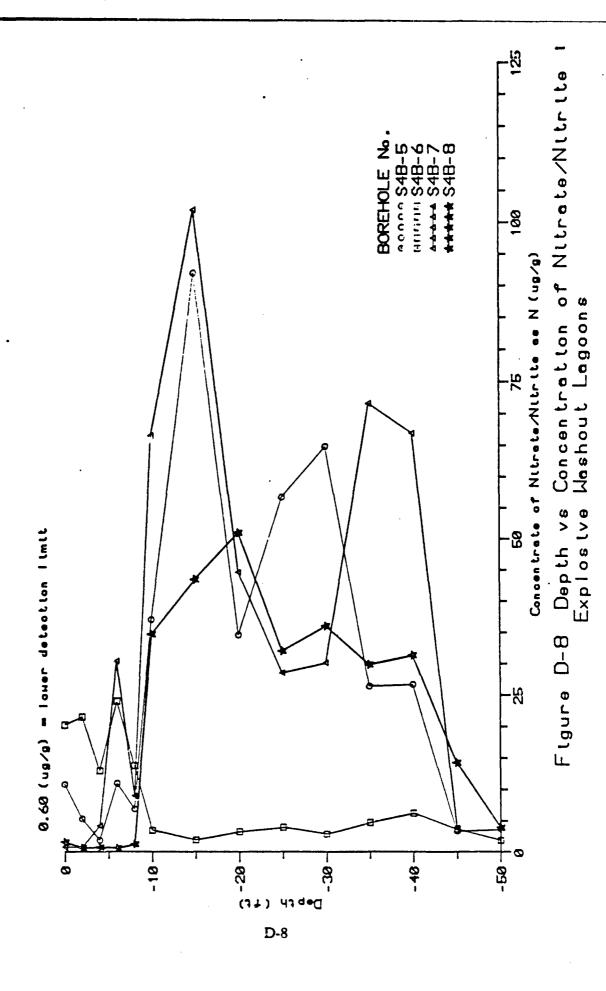












Appendix E
Lithologic Profiles of
Explosives Concentrations
in Soils

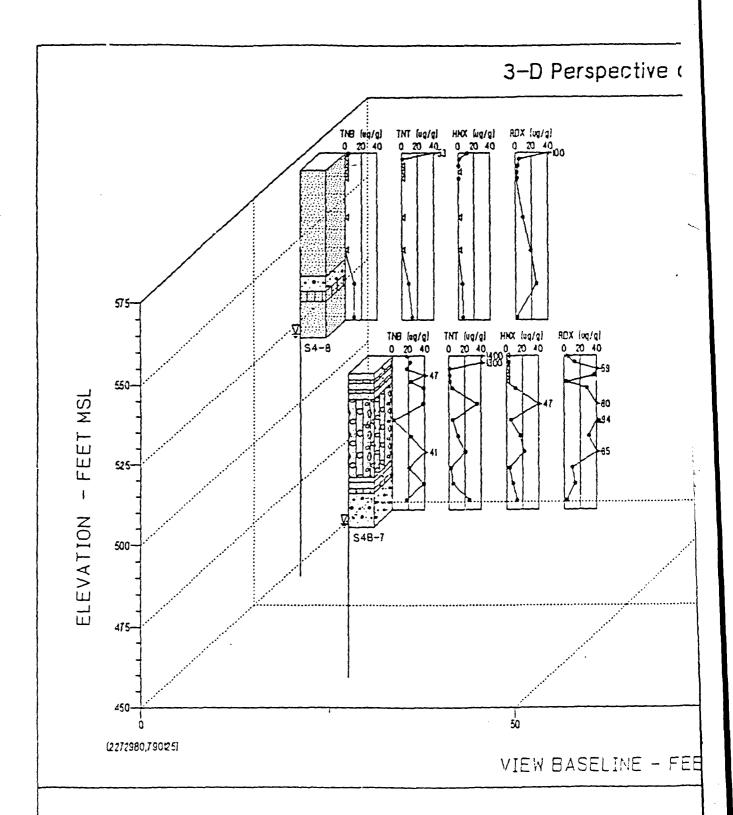
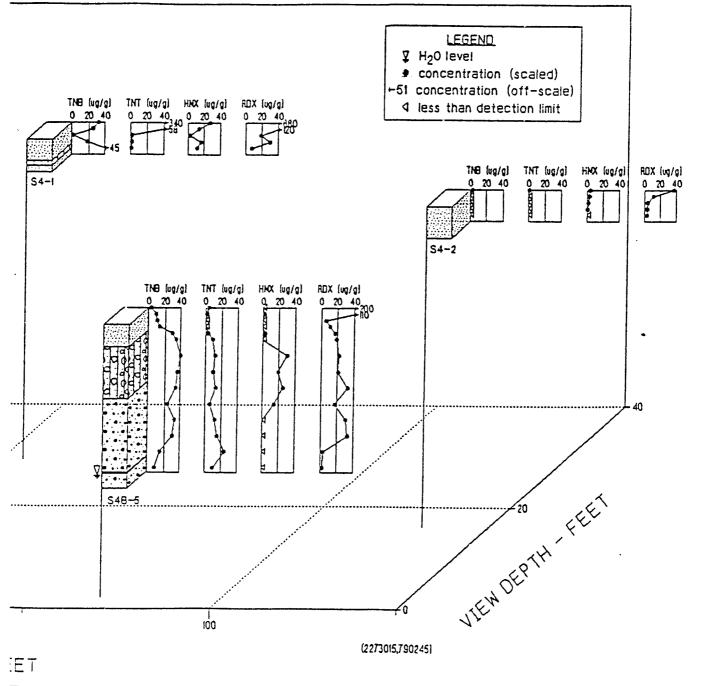


Figure E-1 - Lithologic Profile Show

of Transect C-C'

- * Symbols for lithologic profiles are described on borehole logs Appendix B.
- * Elevation of borehole S4-8 exaggerated to allow for viewing of chemical data.
- ★ See Figure E-8 for borehole locations.



wing Concentrations of Explosives in Soil

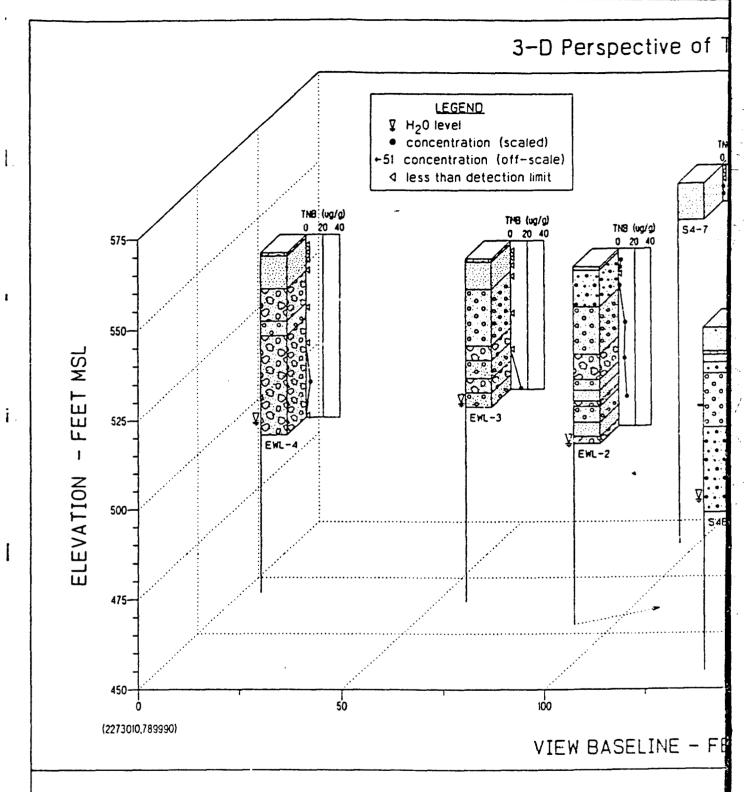
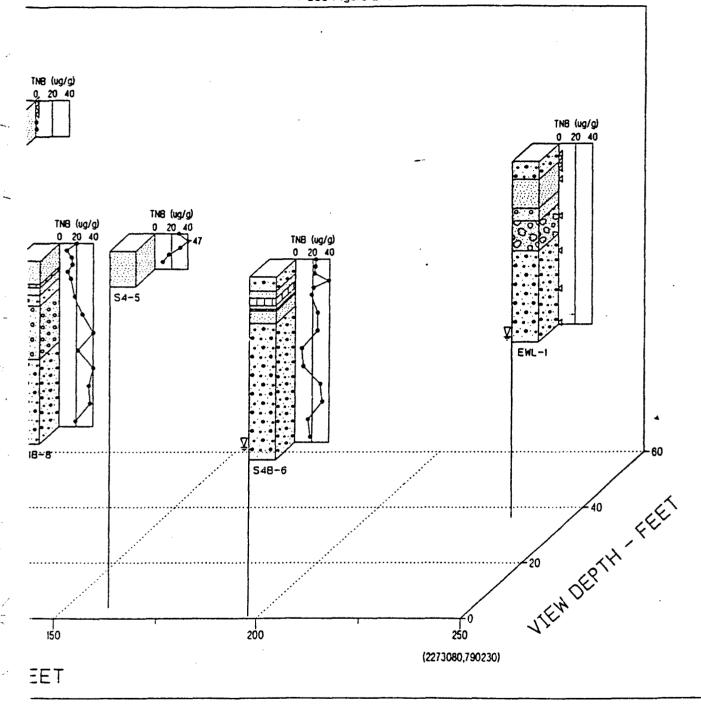


Figure E-2 - Lithologic Profile Sho

Transect D-D'

- * Symbols for lithologic profiles are described on borehole logs Appendix B.
- * Borehole EWL-2 repositioned 20 ft south to allow for viewing of chemical data.
- * See Figure E-6 for borehole locations.



wing Concentration of 135TNB in Soil

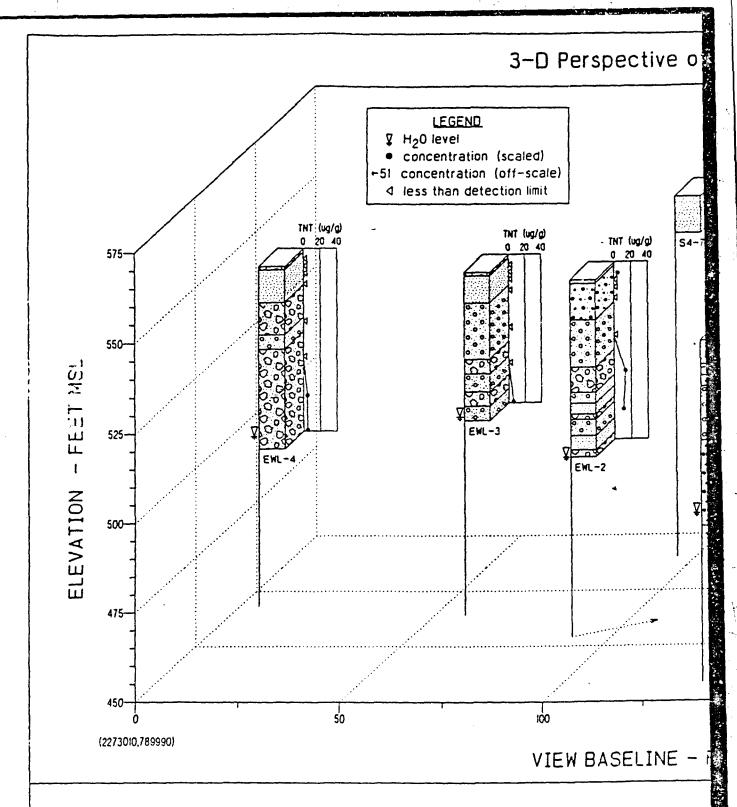
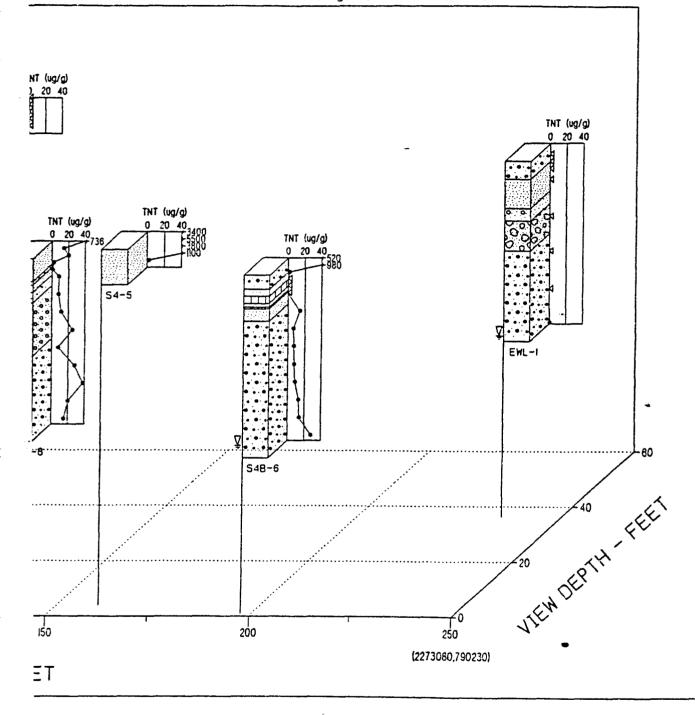


Figure E-3 - Lithologic Profile Sh

Transect D-D'

- * Symbols for lithologic profiles are described on borehole logs Appendix B.
- * Symbols for lithologic profiles are described on borehole logs Appendix B.

 * Borehole EWL-2 repositioned 20 ft south to allow for viewing of chemical data.
- See Figure E-S for borehole locations.



ing Concentration of 246TNT in Soil

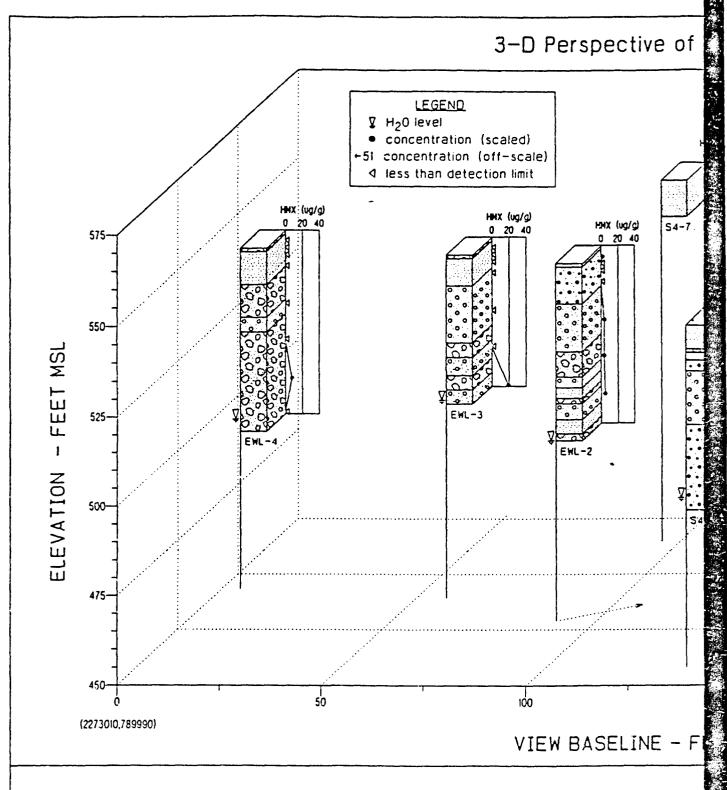
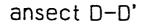
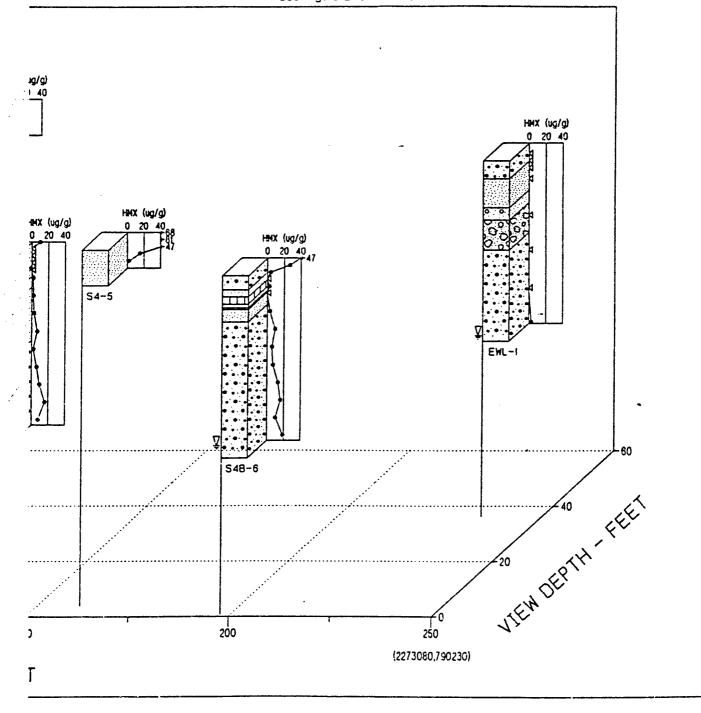


Figure E-4 - Lithologic Profile St



- * Symbols for lithologic profiles are described on borehole logs Appendix B.
- # Borehole EWL-2 repositioned 20 ft south to allow for viewing of chemical data.
- * See Figure E-6 for borehole locations.



wing Concentration of HMX in Soil

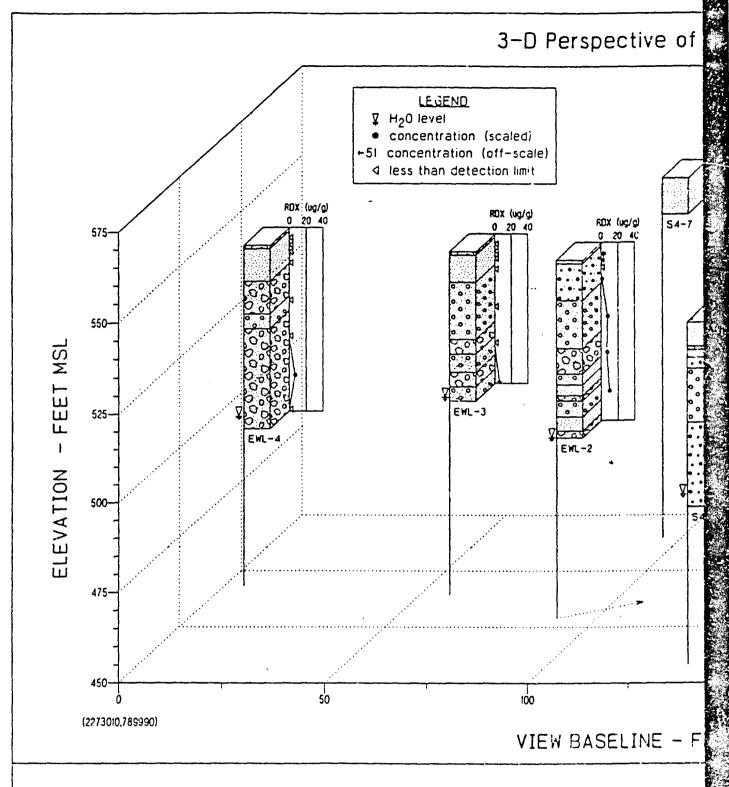
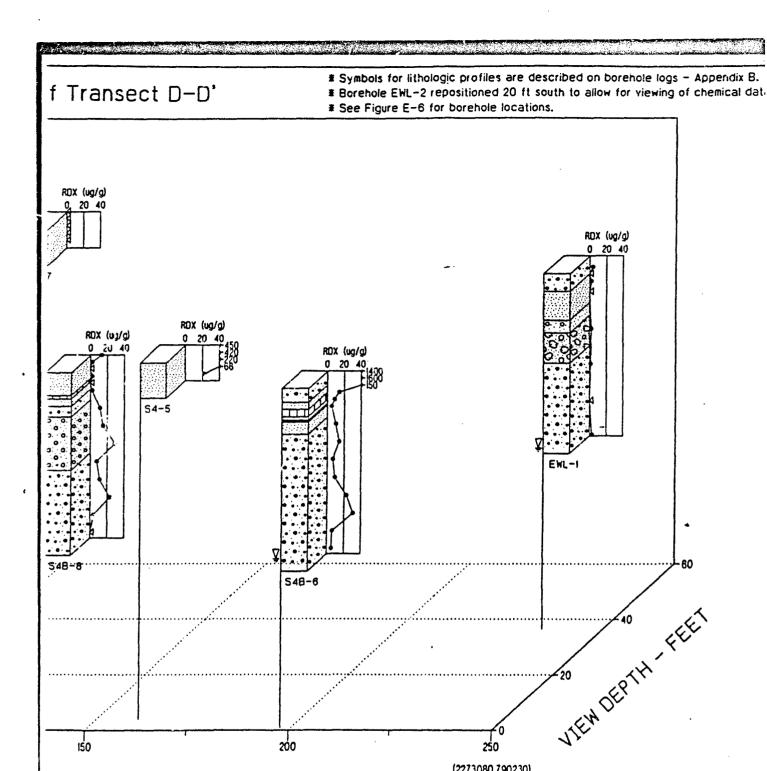


Figure E-5 - Lithologic Profile St

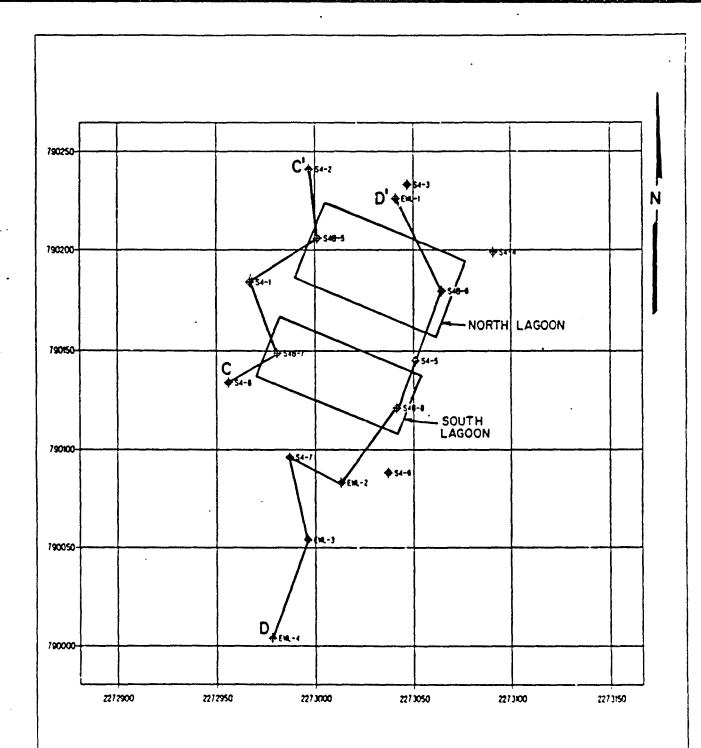


Showing Concentration of RDX in Soil

150

FEET

(2273080,790230)



Appendix F UMDA Background Soils Data cat chemrep.out Mar 26, 1992

The state of the s

Page 1

Installation: Umatilla AD
Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

SAMPLE DEPTH (f	SAMPLE t) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
9.0	07-sep-1990	00	SULFID	LT	2.46e-01	UGG
5.0	07-sep-1990	00	SULFID	LT	2.48e-01	UGG
0.0	07-sep-1990	00	SULFID	LT	2.49e-01	UGG
0.0	07-sep-1990	JB01	HG	LT	5.00e-02	UGG
5.0	07-sep-1990	JB01	HG	LT	5.00e-02	UGG
9.0	07-sep-1990	JB01 .	HG	LT	5.00e-02	UGG
0.0	07-sep-1990	JD15	SE	LT	2.50e-01	UGG
5.0	07-sep-1990	JD15	SE	LT	2.50e-01	UGG
9.0	07-sep-1990	JD15	SE	LT	2.50e-01	UGG
5.0	07-sep-1990	JD17	PB		3.47e+00	tica

Installation: Umatilla AD Page Background Analytical Results for Chemical Soil From: 01-apr-90 To: 31-dec-91

Page 2

Site: BORE SBSA001 (continued)

SAMPLE DEPTH (ft	SAMPLE) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
0.0	07-sep-1990 07-sep-1990	JD17 JD17	PB PB	***	3.68e+00 4.00e+00	UGG UGG
0.0 5.0 9.0	07-sep-1990 07-sep-1990	JD18 JD18 .	AG AG	LT LT	2.50e-02 2.50e-02	UGG
0.0	07-sep-1990	JD18 JD19	ag As	LT	2.50e-02 1.65e+00	UGG
5.0 9.0	07-sep-1990 07-sep-1990	JD19 JD19	AS AS		4.49e+00 5.24e+00	TIGG TIGG
0.0 5.0 9.0	07-sep-1990 07-sep-1990 07-sep-1990	JS11 JS11 JS11	AL AL AL		5.68e+03 6.44e+03	UGG UGG
5.0 0.0 9.0	07-sep-1990 07-sep-1990 07-sep-1990	JS11 JS11	BA BA		7.21e+03 1.16e+02 1.30e+02	UGG UGG UGG
0.0 5.0	07-sep-1990 07-sep-1990	JS11 JS11 JS11	BA BB BB	LT LT	1.58e+02 1.86e+00 1.86e+00	DGG DGG DGG
9.0 0.0 5.0	07-sep-1990 07-sep-1990 07-sep-1990	JS11 JS11 JS11	BE CA CA	LT	1.86e+00 5.52e+03 1.17e+04	UGG UGG UGG
9.0 0.0 5.0	07-sep-1990 07-sep-1990 07-sep-1990	JS11 JS11 JS11	3 88	LT LT	2.28e+04 3.05e+00 3.05e+00	UGG UGG UGG
9.0 0.0 5.0	07-sep-1990 07-sep-1990 07-sep-1990	JS11 JS11 JS11	33B	LT LT LT	3.05e+00 1.50e+01 1.50e+01	UGG UGG UGG
9.0 0.0 5.0	07-sep-1990 07-sep-1990 07-sep-1990	<i>J</i> S11 <i>J</i> S11 <i>J</i> S11	85 64 64	LT LT LT	1.50e+01 1.27e+01 1.27e+01	UGG UGG UGG
9.0 0.0 5.0	07-sep-1990 07-sep-1990 07-sep-1990	JS11 JS11 JS11	CD CD CR	LT LT LT	1.27e+01 5.86e+01 5.86e+01	UGG UGG UGG
9.0 5.0 0.0	07-sep-1990 07-sep-1990 07-sep-1990	JS11 JS11 JS11	CU FE FE	LT	5.86e+01 1.70e+04 1.85e+04	UGG UGG
9.0 9.0	07-sep-1990 07-sep-1990 07-sep-1990	JS11 JS11 JS11	FE K K		1.86e+04 1.51e+03	UGG UGG UGG
0.0	07-sep-1990 07-sep-1990 07-sep-1990	JS11 JS11 JS11	K MG MG		1.80e+03 2.12e+03 5.30e+03	UGG UGG
9.0 5.0	07-sep-1990 07-sep-1990	JS11 JS11	MG MN		6.92e+03 8.15e+03 3.72e+02	ugg ugg ugg
9.0	07-sep-1990 07-sep-1990 07-sep-1990	JS11 JS11 JS11	MN MN NA		4.64e+02 6.81e+02 4.93e+02	ugg ugg ugg

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Installation: Umatilla AD Page Background Analytical Results for Chemical Soil From: 01-apr-90 To: 31-dec-91

Site: BORE SBSA001 (continued)

SAMPLE DEPTH (ft	SAMPLE DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS

5.0	07-sep-1990	JS11	NA		5.81e+02	UGG
9.0	07-sep-1990	JS11	NA		9.78e+02	UGG
0.0	07-sep-1 990	JS11	NI	LT	1.26e+01	UGG
5.0	07-sep-1990	JS11	NI	LT	1.26e+01	UGG
9.0	07-sep-1990	JS11	NI	LT	1.26e+01	UGG
0.0	07-sep-1990	JS11	SB	LT	3.80e+00	UGG
5.0	07-sep-1990	JS11	SB	LT	3.80e+00	
9.0	07-sep-1990	JS11	SB	LT		UGG
0.0	07-sep-1990	JS11	TL	LT	3.80e+00	UGG
5.0	07-sep-1990	JS11	TL		3.13e+01	UGG
9.0	07-sep-1990	JS11		LT	3.13e+01	UGG
5.0	07-sep-1990	JS11	TL.	LT	3.13e+01	UGG
9.0	07-sep-1990		ñ		7.48e+01	UGG
0.0	07-sep-1990	JS11	Ā		8.28e+01	UGG
5.0	07-sep-1990	JS11	Ā		8.41e+01	UGG
	07-sep-1990	JS11	ZN		6.02e+01	UGG
9.0	07-sep-1990	JS11	ZN		6.37e+01	UGG
0.0	07-sep-1990	JS11	ZN		6.60e+01	UGG
0.0	07-sep-1990	KF10	NIT		8.05e-01	UGG
5.0	07-sep-1990	KF10	NIT	LT	6.00e-01	TGG
9.0	07-sep-1990	KF10	NIT	LT	6.00e-01	DGG
	•		=·	~~	-1446-AT	000
0.0	07-sep-1990	KY01	CYN	LT	9.20e-01	THE
5.0	07-sep-1990	KY01	CYN	LT		UGG
9.0	07-sep-1990	KY01	CYN		9.20e-C1	UGG
	cop 2550	WI OT	CIM	LT	9.20e-01	UGG

			•			
SAMPLE DEPTH (SAMPLE ft) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
0.0	05-sep-1990	00	SULFID	LT	2.34e-01	UGG
9.0	05-sep-1990	00	SULFID	LT	2.41e-01	UGG
5.0	05-sep-1990	00	SULFID	LT	2.43e-01	UGG
0.0 5.0 9.0	05-sep-1990 05-sep-1990 05-sep-1990	JB01 JB01 JB01	EG EG EG	LT LT	5.56e-02 5.00e-02 5.00e-02	DGG DGG DGG
0.0	05-sep-1990	JD15	SB	LT	2.50e-01	DGG
5.0	05-sep-1990	JD15	SB	LT	2.50e-01	DGG
9.0	05-sep-1990	JD15	SB	LT	2.50e-01	DGG
9.0	05-sep-1990	JD17	PB		5.24e+00	UGG
5.0	05-sep-1990	JD17	PB		5.61e+00	UGG
0.0	05-sep-1990	JD17	PB		8.37e+00	UGG

Installation: Umatilla AD Page 4
Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site: BORE SBSA002 (continued)

SAMPLE DEPTH (f	SAMPLE t) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
0.0	05					
0.0	05-sep-1990	JD18	AG	LT	2.50e-02	DGG
5.0	05-sep-1990	JD18	AG	LT	2.50e-02	DGG
9.0	05-sep-1990	JD18	AG	LT	2.50e-02	DGG
0.0	05-sep-1990	JD19	AS		2.42e+00	DGG
9.0	05-sep-1990	JD19	` AS		4.59e+00	TGG
5.0	05-sep-1990	JD19	AS		4.69e+00	DGG
9.0	05-sep-1990	JS11	AL		4.53e+03	UGG
0.0	05-sep-1990	JS11	AL		6.61e+03	UGG
5.0	05-sep-1990	JS11	AL		8.60e+03	DGG
9.0	05-sep-1990	JS11	BA		1.20e+02	DGG
0.0	05-sep-1990	JS11	BA		1.31e+02	
5.0	05-sep-1990	JS11	BA		1.82e+02	DGG
0.0	05-sep-1990	JS11	BE	LT		DGG
5.0	05-sep-1990	JS11	BE	LT	1.86e+00	DGG
9.0	05-sep-1990	JS11	BB	LT	1.86e+00	DGG
0.0	05-sep-1990	JS11	CA	ПI	1.86e+00	DGG
9.0	05-sep-1990	JS11	ĊÃ.		5.72e+03	DGG
5.0	05-sep-1990	JS11	ĊĀ.		1.53e+04	UGG
0.0	05-sep-1990	JS11	8		2.90e+04	UGG
5.0	05-sep-1990	JS11	· 88	LT	3.05e+00	DGG
9.0	05-sep-1990	JS11	99	LT	3.05e+00	DGG
0.0	05-sep-1990	JS11	ÇO CO	LT	3.05e+00	DGG
5.0	05-sep-1990	JS11	co	LT	1.50e+01	UGG
9.0	05-sep-1990	JS11	CO	LT	1.50e+01	UGG
0.0	05-sep-1990	JS11	CR	LT	1.50e+01	UGG
5.0	05-sep-1990	JS11		LT	1.27e+01	DGG
9.0	05-sep-1990	JS11	CR CR	LT	1.27e+01	UGG
0.0	05-sep-1990			LT	1.27e+01	DGG
5.0	05-sep-1990	JS11 .TS11	CU	LT	5.86e+01	UGG
9.0	05-sep-1990	JS11	CU	LT	5.86e+01	UGG
9.0	05-sep-1990	JS11	CU	LT	5.86e+01	UGG
0.0	05-sep-1990	JS11	FE		1.58e+04	DGG
5.0		JS11	FB		1.76e+04	DGG
9.0	05-sep-1990	JS11	Pe		2.62e+04	DGG
5.0	05-sep-1990	JS11	K		9.86e+02	UGG
0.0	05-sep-1990	JS11	. K		1.57e+03	DGG
0.0	05-sep-1990	JS11	K		2.18e+03	UGG
	05-sep-1990	JS11	MG		5.36e+ 03	UGG
9.0.	05-sep-1990	JS11	MG		5.67e+03	DGG
5.0	05-sep-1990	JS11	MG		8.59e+03	DGG
0.0	05-sep-1990	JS11	MN		5.05e+02	DGG
9.0	05-sep-1990	JS11	MN		5.46e+02	DGG
5.0	05-sep-1990	JS11	MN		8.74e+02	DGG
0.0	05-sep-1990	JS11	NA		4.86e+02	DGG
9.0	05-sep-1990	JS11	NA		5.08e+02	DGG
5.0	05-sep-1990	JS11	NA		6.94e+02	DGG
0.0	05-sep-1990	JS11	NI	LT	1.25e+01	
	•		_		A PROCES	DGG

Installation: Umatilla AD Page 5
Sac'tground Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site:	BORE	SESA002	(continued)
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SAMPLE DEPTH (ft	SAMPLE) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
	********				*******	****
5.0	05-sep-1990	JS11	NI	LT	1.26e+01	UGG
9.0	05-sep-1990	JS11	NI	LT	1.26e+01	UGG
0.0	05-sep-1990	JS11	SB	LT	3.80e+00	
5.0	05-sep-1990	JS11	SB	LT	3.80e+00	UGG
9.0	05-sep-1990	JS11	SB	ĹŤ	3.80e+00	TGG
0.0	05-sep-1990	JS11	TL	LT		DGG
5.0	05-sep-1990	JS11	TL		3.13e+01	UGG
9.0	05-sep-1990	JS11 ·	TL	LT	3.13e+01	UGG
9.0	05-sep-1990	JS11		LT	3.13e+01	UGG
0.0	05-sep-1990		Ā		6.77e+01	UGG
5.0	05-8ep-1990	JS11	V		8.09e+01	UGG
9.0	05-sep-1990	JS11	Ā		1.05e+02	UGG
	05-sep-1990	JS11	ZN		5.60e+01	UGG
2.0	05-sep-1990	JS11	ZN		7.26e+01	UGG
5.0	05-sep-1990	JS11	ZN		7.65e+01	UGG
0.0	05-sep-1990	KP20	NIT		3.74e+00	TTCC
5.0	05-sep-1990	KF10	NIT	LT	6.00e-01	UGG
9.0	05-sep-1990	KF10	NIT	ĬŤ		UGG
			****	DY	6.00e-01	UGG
0.0	05-sep-1990	KY01	CYN	7 00	0 00- 01	
5.0	05-sep-1990	KY01	CYN	LT	9.20e-01	UGG
9.0	05-sep-1990	KY01		LT	9.20e-01	UGG
		KIUI	CYN .	LT	9.20e-01	UGG

SAMPLE DEPTH (ft	SAMPLE) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
0.0	05-sep-1990	00	SULFID	LT	2.42e-01	UGG
5.0	05-sep-1990	00	SULFID	LT	2.47e-01	UGG
0.0	05-sep-1990	JB01	HG	LT	5.00e-02	UGG
5.0	05-sep-1990	JB01	HG	LT	5.00e-02	UGG
0.0	05-sep-1990	JD15	Se	LT	2.50e-01	UGG
5.0	05-sep-1990	JD15	Se	LT	2.50e-01	UGG
0.0	05-sep-1990	JD17	PB		4.48e+00	UGG
5.0	05-sep-1990	JD17	PB		6.53e+00	UGG
0.0	05-sep-1990	JD18	AG	LT	2.50e-02	UGG
5.0	05-sep-1990	JD18	AG	LT	2.50e-02	UGG
0.0	05-sep-1990	JD19	as		1.86e+00	UGG
5.0	05-sep-1990	JD19	As		2.73e+00	UGG
0.0	05-sep-1990	JS11	AL		6.31e+03	uga

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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site: BORE SBSA003 (continued)

SAMPLE DEPTH (f	SAMPLE t) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
					CONCENTION	OHILS
5.0	05-sep-1990	JS11	AL		6.36e+03	7700
0.0	05-sep-1990	JS11	BA		1.37e+02	UGG
5.0	05-sep-1990	JS11	BA			UGG
0.0	05-sep-1990	JS11	BE	LT	2.33e+02	UGG
5.0	05-sep-1990	JS11	. BB	LT	1.86e+00	UGG
0.0	05-sep-1990	JS11	CA	21	1.86e+00	DGG
5.0	05-sep-1990	JS11	CA	•	5.23e+03	UGG
0.0	05-sep-1990	JS11	Œ	LT	2.00e+04	UGG
5.0	05-sep-1990	. JS11	. 60	LT	3.05e+00	UGG
0.0	05-sep-1990	JS11	.33	LT	3.05e+00	UGG
5.0	05-sep-1990	JS11	œ	LT	1.50e+01	UGG
0.0	05-sep-1990	JS11	CR CR	LT	1.50e+01	UGG
5.0	05-sep-1990	JS11	CR CR	LT	1.27e+01	UGG
0.0	05-sep-1990	JS11	CD	LT	1.27e+01	UGG
5.0	05-sep-1990	JS11	CO	LT	5.86e+01	UGG
0.0	05-sep-1990	JS11	FE	TiT	5.86e+01	UGG
5.0	05-sep-1990	JS11	FE		1.86e+04	UGG
5.0	05-sep-1990	JS11	K		2.47e+04	UGG
0.0	05-sep-1990	JS11	K		9.44e+02	UGG
0.0	05-sep-1990	JS11	MG		1.98e+03	DGG
5.0	05-sep-1990	JS11	MG		5.15e+03	UGG
0.0	05-sep-1990	JS11			6.71e+03	UGG
5.0	05-sep-1990	JS11	MN MN		4.71e+02	UGG
0.0	05-sep-1990	JS11	NA NA		7.59e+02	UGG
5.0	05-sep-1990	JS11			4.73e+02	UGG
0.0	05-sep-1990	JS11	NA NI		7.18e+02	UGG
5.0	05-sep-1990	JS11	NI	LT	1.26e+01	UGG
0.0	05-sep-1990	JS11		LT	1.26e+01	UGG
5.0	05-sep-1990	JS11	SB SB	LT	3.80e+00	UGG
0.0	05-sep-1990	JS11	TL	LT	3.80e+00	UGG
5.0	05-sep-1990	JS11		LT	3.13e+01	UGG
0.0	05-sep-1990	JS11	TL V	LT	3.13e+01	UGG
5.0	05-sep-1990	JS11 JS11	A A		7.75e+01	UGG
0.0	05-sep-1990	JS11			1.12e+02	UGG
5.0	05-sep-1990		ZN		7.63e+01	UGG
3.0	02-26b-1330	JS11	ZN		8.27e+01	UGG
0.0	05-sep-1990	KF10	NIT		1 210.00	-
5.0	05-sep-1990	KF10	NIT	LT	1.21e+00	UGG
		4	1141	nT.	6.00e-01	UGG
0.0 .	05-sep-1990	KY01	CYN	LT	9 200-01	1700
5.0	05-sep-1990	KY01	CYN	LT	9.20e-01	UGG
				77	9.20e-01	UGG

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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

SAMPLE DEPTH (fi	SAMPLE DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
5.0	0E con 1000	*****			*******	
	05-sep-1990	00	SULFID	LT	2.38e-01	UGG
0.0	05-sep-1990	00	SULFID	LT	2.39e-01	ÜĞĞ
						000
0.0	05-sep-1990	JB01	HG	LT	5.00e-02	200
5.0	05-sep-1990	JB01 .	HG	LT		UGG
		UDUL .	443	nī	5.00e-02	TGG
0.0	05-sep-1990	JD15	69			
. 5.0			SE	LT	2.50e-01	DGG
	05-sep-1 990	JD15	SB	LT	2.50e-01	UGG
5.0	05 1001					
	05-sep-1990	JD17	PB		4.60e+00	UGG
0.0	05-sep-1990	JD17	PB		4.83e+00	
					4.036700	UGG
0.0	05-sep-1990	JD18	AG	LT	2 50- 00	
5.0	05-sep-1990	JD18	AG AG	77	2.50e-02	UGG
	10 00p 2330	0210	PAS	LT	2.50e-02	UGG
5.0	05-sep-1990	7734.0				
0.0		JD19	AS ·		1.09e+00	UGG
0.0	05-sep-1990	JD19	AS		2.00e+00	UGG
5.0	05					
	05-sep-1990	JS11	AL		5.08e+03	UGG
0.0	05-sep-1990	JS11	AL		5.85e+03	UGG
0.0	05-sep-1990	JS11	BA		1.34e+02	UGG
5.0	05-sep-1990	JS11	BA		1.66e+02	
0.0	05-sep-1990	JS11	BE	LT		DGG
5.0	05-sep-1990	JS11	BB	LT	1.86e+00	UGG
0.0	05-sep-1990	JS11	ČÄ	n1	1.86e+00	DGG
5.0	05-sep-1990	JS11			5.08e+03	UGG
0.0	05-sep-1990		CA		9.09e+03	UGG
5.0	05-8ep-1990	JS11	<u>CD</u>	LT	3.05e+00	UGG
0.0	05-sep-1990	JS11	CD .	LT	3.05e+00	UGG
	05-sep-1990	JS11	CO	LT	1.50e+01	UGG
5.0	05-sep-1990	JS11	CO	LT	1.50e+01	UGG
0.0	05-sep-1990	JS11	CR	LT	1.279+01	
5.0	05-sep-1990	JS11	CR	LT	1.27e+01	UGG
0.0	05-sep-1990	JS11	CU	LT		<u>DGG</u>
5.0	05-sep-1990	JS11	ĊŨ	LT	5.86e+01	UGG
0.0	05-sep-1990	JS11	FE	шт	5.86e+01	UGG
5.0	05-sep-1990	JS11	FE		1.78e+04	UGG
5.0	05-sep-1990	JS11			2.44e+04	UGG
0.0	05-sep-1990		K		9.82e+02	UGG
0.0	05-sep-1990	JS11	K		1.75e+03	UGG
	05-sep-1990	JS11	MG		4.5 6e+03	UGG
	05-sep-1990	JS11	MG		5.81e+03	UGG
0.0	05-зер-1990	JS11	MN		5.01e+02	UGG
5.0	05-sep-1990	JS11	MN		5.68e+02	
0.0	05-sep-1990	JS11	MA		4.79e+02	DGG
5.0	05-seກ-1990	JS11	NA			UGG
0.0	05-sep-1990	JS11	NI	LT	6.78e+02	UGG
5.0	05-sep-1990	JS11	NI		1.25e+01	UGG
0.0	05-sep-1990	JS11		LT	1.26e+01	DGG
5.0	05-sep-1990		SB	LT	3.80e+00	UGG
- · •	"CF-7330	JS11	SB	LT	3.80e+00	UGG

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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site:	Bore	SBSA004	(continued)
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TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS

	TL	LT	3.13e+01	DGG
L990 J S11	TL			DGG
1990 JS11	V			DGG
1990 JS11				
				UGG
990 JS11	ZN		7.57e+01	DGG DGG
.990 KF10	NIT	••	2.39e+00	DGG
.330 RFIU	WII	LT	6.00e-01	DGG
990 KY01 990 KY01	CYN CYN	LT LT	9.20e-01 9.20e-01	UGG UGG
	MBTHOD 1990 JS11 1990 JS11 1990 JS11 1990 JS11 1990 JS11 1990 JS11 1990 KF10 1990 KF10 1990 KF10	METHOD COMPOUND 1990 JS11 TL 1990 JS11 V 1990 JS11 V 1990 JS11 ZN 1990 JS11 ZN 1990 JS11 ZN 1990 KF10 NIT 1990 KF10 NIT	MBTHOD COMPOUND BOOL 1990 JS11 TL LT 1990 JS11 TL LT 1990 JS11 V 1990 JS11 V 1990 JS11 ZN 1990 JS11 ZN 1990 KF10 NIT 1990 KF10 NIT LT	METHOD COMPOUND BOOL CONCENTRATION 1990 JS11 TL LT 3.13e+01 1990 JS11 TL LT 3.13e+01 1990 JS11 V 7.31e+01 1990 JS11 V 9.79e+01 1990 JS11 ZN 6.38e+01 1990 JS11 ZN 7.57e+01 1990 KF10 NIT 2.39e+00 1990 KF10 NIT LT 6.00e-01

SAMPLE DEPTH (ft	SAMPLE) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
5.0	10-jul-1990 10-jul-1990	00	SULFID	LT LT	2.45e-01 2.50e-01	MGKG MGKG
· 0.0	10-jul-1990	JB01	HG	LT	5.00e-02	DGG
5.0	10-jul-1990	JB01	HG	LT	5.00e-02	DGG
0.0	10-jul-1990	JD15	Se	LT	2.50e-01	TGG
5.0	10-jul-1990	JD15	Se	LT	2.50e-01	TGG
5.0	10-jul-1990	JD16	v		5.38e+01	UGG
0.0	10-jul-1990	JD16	v		7.43e+01	UGG
5.0	10-jul-1990	JD17	PB		3.05e+00	DGG
0.0	10-jul-1990	JD17	PB		5.92e+00	DGG
0.0	10-jul-1990	JD18	AG	LT	3.79e-02	UGG
5.0	10-jul-1990	JD18	AG		2.50e-02	UGG
5.0	10-jul-1990	JD19	as		1.46e+00	VGG
0.0	10-jul-1990	JD19	as		2.23e+00	VGG
5.0 0.0 5.0 5.0 5.0	10-jul-1990 10-jul-1990 10-jul-1990 10-jul-1990 10-jul-1990 10-jul-1990 10-jul-1990	JS11 JS11 JS11 JS11 JS11 JS11 JS11	AL BA BA BB BB CA CA	LT LT LT	2.57e+03 5.57e+03 1.32e+02 2.96e+01 1.86e+00 1.86e+00 5.07e+03 5.62e+03	DGG DGG DGG DGG DGG DGG DGG

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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site: BORE SASA005 (cor	ntinued)
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SAMPLA DEPTH (ft	Sample) Date	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
0.0	10-jul-1990			••••	******	*****
5.0	10-jul-1990	JS11	<u>CD</u>	LT	3.05e+CO	UGG
0.0	10-jul-1990	JS11	8	LT	3.05e+00	UGG
5.0	10-jul-1990	JS11	ထ	LT	1.50e+01	UGG
0.0	10-jul-1990	JS11	င္လ	LT	1.50e+01	DGG
5.0	10-jul-1990	JS11	CR	LT	1.27e+01	DGG
0.0	10-jul-1990	JS11	CR	LT	1.27e+01	DGG
5.0	10-jul-1990	JS11	ದ	LT	5.86e+01	DGG
5.0	10-jul-1990	JS11 JS11	CO	LT	5.86e+01	DGG
0.0	10-jul-1990		PE		8.04e+03	DGG
5.0	10-jul-1990	JS11	FB		1.78e+04	UGG
0.0	10-jul-1990	JS11 JS11	K		3.56e+02	DGG
5.0	10-jul-1990	JS11	X		2.03e+03	DGG
0.0	10-jul-1990	JS11	MG		3.72e+03	UGG
5.0	10-jul-1990	JS11	MG MN		5.26e+03	UGG
0.0	10-jul-1990	JS11	MN		1.08e+02	DGG
5.0	10-jul-1990	JS11	NA NA		4.91e+02	DGG
0.0	10-jul-1990	JS11	NA NA		3.35e+02	DGG
0.0	10-jul-1990	JS11	NI	LT	3.97e+02	DGG
5.0	10-jul-1990	JS11	NI	LT	1.26e+01	DGG
0.9	10-jul-1990	JS11	SB	LT	1.26e+01	DGG
5.0	10-jul-1990	JS11	SB	LT	3.80e+00	DGG
0.0	10-jul-1990	JS11	TL	LT	3.80e+00 3.13e+01	DGG
5.0	10-jul-1990	JS11	ŤĹ	LT	3.13e+01 3.13e+01	DGG
0.0	10-]ul-1990	JS11	ZN	21	7.14e+01	DGG
5.0	10-jul-1990	JS11	ZN	LT	3.02e+01	DGG
	•			.	3.026+01	UGG
0.0	10-jul-1990	KF10	NIT	•	6.69e-01	ma
5.0	10-jul-1990	KF10	NIT	LT	6.00e-01	UGG
	_				0.006-01	DGG
0.0	10-jul-1990	KY01	CYN	LT	9.20e-01	TGG
5.0	10-jul-1990	KY01	CYN	LT	9.20e-01	
					3.904-0T	UGG

SAMPLE DEPTH (ft	SAMPLE DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
5.0	05-sep-1990	00	SULFID	LT	2.39e-01	DGG
9.0	05-sep-1990	00	SULFID	LT	2.40e-01	DGG
0.0	05-sep-1990	00	SULFID	LT	2.45e-01	DGG
0.0	05-sep-1990	JB01	HG	LT	5.00e-02	DGG
5.0	05-sep-1990	JB01	HG	LT	5.00e-02	DGG
9.0	05-sep-1990	JB01	HG	LT	5.00e-02	DGG
0.0	05-sep-1990	JD15	SE	LT	2.50e-01	UCG

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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site: BORE SBSA006 (continued)

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SAMPLR DEPTH (1	SAMPLE (t) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
5.0 9.0	05-sep-1990 05-sep-1990	JD15 JD15	SE SE	LT LT	2.50e-01 2.50e-01	UGG UGG
9.0 5.0 0.0	05-sep-1990 05-sep-1990 05-sep-1990	JD17 JD17 JD17	PB PB		2.86e+00 4.14e+00 4.49e+00	UGG UGG UGG
0.0 5.0 9.0	05-sep-1990 05-sep-1990 05-sep-1990	JD18 JD18 JD18	AG AG AG	LT LT LT	2.50e-02 2.50e-02 2.50e-02	UGG UGG UGG
0.0 5.0 9.0	05-sep-1990 05-sep-1990 05-sep-1990	JD19 JD19 JD19	AS AS AS		1.22e+00 1.60e+00 1.71e+00	UGG UGG UGG
5.0 9.0 0.0	05-sep-19°0 05-sep-1990 05-sep-1990	JS11 JS11 JS11	AL AL AL		4.01e+03 4.36e+03 5.27e+03	UGG UGG UGG
5.0 9.0 0.0 0.0	05-sep-1990 05-sep-1990 05-sep-1990 05-sep-1990	JS11 JS11 JS11 JS11	BA BA BB	ur	8.65e+01 1.05e+02 1.32e+02 1.86e+00	UGG UGG UGG UGG
5.0 9.0 0.0 5.0	05-sep-1990 05-sep-1990 05-sep-1990 05-sep-1990	JS11 JS11 JS11 JS11	BB CA CA	LT	1.86e+00 1.86e+00 6.27e+03	UGG UGG UGG
9.0 0.0 5.0 9.0	05-sep-1990 05-sep-1990 05-sep-1990	JS11 JS11 JS11	3 9 9	LT LT	7.35e+03 8.61e+03 3.05e+00 3.05e+00	DGG DGG DGG DGG
0.0 5.0 9.0	05-sep-1990 05-sep-1990 05-sep-1990 05-sep-1990	JS11 JS11 JS11 JS11	3338	LT LT LT LT	3.05e+00 1.50e+01 1.50e+01 1.50e+01	UGG UGG UGG UGG
0.0 5.0 9.0 0.0	05-sep-1990 05-sep-1990 05-sep-1990 05-sep-1990	JS11 JS11 JS11 JS11	៥៥៥៥	LT LT LT	1.27e+01 1.27e+01 1.27e+01	DGG DGG DGG
5.0 9.0 0.0	05-sep-1990 05-sep-1990 05-sep-1990	JS11 JS11 JS11	CU CU Fs	LT LT LT	5.86e+01 5.86e+01 5.86e+01 2.09e+04	DGG DGG DGG
5.0 9.0 9.0 5.0	05-sep-1990 05-sep-1990 05-sep-1990 05-sep-1990	JS11 JS11 JS11 JS11	FR FB K K		2.15e+04 2.15e+04 6.92e+02 6.97e+02	UGG UGG UGG UGG
0.0 0.0 5.0 9.0	05-sep-1990 05-sep-1990 05-sep-1990 05-sep-1990	JS11 JS11 JS11 JS11	K MG MG MG		1.76e+03 5.28e+03 5.49e+03	UGG UGG UGG
	·	~···	*~J		5.57e+03	UGG

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Installation: Umatilla AD Page Background Analytical Results for Chemical Soil From: 01-apr-90 To: 31-dec-91

Site: BORE SBSA006 (continued)

				•		
SAMPLE DEPTH (f	SAMPLE (t) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
9.0	05-00-1000		******			••••
	05-sep-1990	JS11	MN		4.30e+02	UGG
5.0	05-sep-1990	JS11	mn		4.49e+02	UGG
0.0	05-sep-1990	JS11	MIN		5.73e+02	DGG
0.0	05-sep-1990	JS11	NA		4.53e+02	DGG
5.0	05-sep-1 990	JS11 .	NA		5.60e+02	
9.0	05-sep-1990	JS11	NA		5.66e+02	UGG
0.0	05-sep-1 990	JS11	NI	LT		OGG
5.0	05-sep-1990	JS11	NI		1.26e+01	UGG
9.0	05-sep-1990	JS11	NI	LT	1.26e+01	UCG
0.0	05-sep-1990	JS11		LT	1.26e+01	DGG
5.0	05-sep-1990		SB	LT	3.80e+00	UGG
9.0	05-sep-1990	JS11	SB	LT	3,80e+00	UGG
0.0	05 Bep-1990	JS11	SB	LT	3.80e+00	UGG
5.0	05-sep-1990	JS11	TL	LT	3.13e+01	UGG
	05-sep-1990	JS11	TL	LT	3.13e+01	UGG
9.0	05-sep-1990	JS11	TL.	LT	3.13e+01	UGG
0.0	05-sep-1990	JS11	V		9.24e+01	DGG
5.0	05-sep-1990	JS11	٧		1.03e+02	1100
9.0	05-sep-1990	JS11	Ÿ		1.03e+02	UGG
5.0	05-sep-1990	JS11	ZN			DGG
9.0	05-sep-1990	JS11	ZN		7.14e+01	DGG
0.0	05-sep-1990	JS11	ZN		7.14e+01	DGG
		4011	244		7.74e+01	UGG
0.0	05-sep-1990	KF10	W7700			
5.0	05-sep-1990		NIT		1.28e+00	TGG
9.0	05-sep-1990	KF10	NIT	LT	6.00e-01	UGG
2.0	02-160-1330	KF10	NIT	LT	6.00e-0_	DGG
0.0	05-sep-1990	KY01	CYN	7.00	0.0000	
5.0	05-sep-1990	KY01		LT	9.20e-01	UGG
9.0	05-sep-1990	KY02	CYN	LT	9.20e-01	UGG
2.00	22 2ch-1330	WIO?	CYN	LT	9.20e-01	UGG

SAMPLE DEPTH (ft	Sample) Date	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
0.0 5.0 5.0 9.0	05-sep-1990 05-sep-1990 05-sep-1990 05-sep-1990	00 00 00 00	SULFID SULFID SULFID	LT LT LT	3.17e-01 2.39e-01 2.40e-01 2.40e-01	DGG DGG DGG DGG
0.0	05-sep-1990	JB01	eg	LT	5.00e-02	DGG
5.0	05-sep-1990	JB01	eg	LT	5.00e-02	DGG
9.0	05-sep-1990	JB01	eg	LT	5.00e-02	DGG
0.0	05-sep-1990	JD15	SB	LT	2.50e-01	UGG
5.0	05-sep-1990	JD15	SB	LT	2.50e-01	UGG
9.0	05-sep-1990	JD15	SB	LT	2.50e-01	UGG

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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site: BORE SBSA007 (continued)

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SAMPLE DEPTH (ft	SAMPLE) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
5.0	05-sep-1990	JD17	PB		2.22e+00	
9.0	05-sep-1990	JD17	PB		4.26e+00	DGG
0.0	05-sep-1990	JD17	PB		4.33e+00	DGG
	43 BCP 2330	UDI.	20		1.336700	UGG
0.0	05-sep-1990	JD18 .	AG	LT	2.50e-02	TGG
5.0	05-sep-1990	JD18	AG	LT	2.50e-02	UGG
9.0	05-sep-1990	JD18	AG	LT	2.50e-02	OGG
5.0	05-sep-1990	JD19	AS		2.08e+00	DGG
0.0	05-sep-1990	JD19	as		2.19e+00	UGG
9.0	05-sep-1990	JD19	EA		2.24e+00	OGG
5.0	05-sep-1990	JS11	AL		3.76e+03	UGG
9.0	05-sep · 1990	JS11	AL		4.17e+03	ÜĞĞ
5.0	05-sep-1990	JS11	AL		5.28e+03	DGG
0.0	05-sep-1990	JS11	AL		6.44e+03	DGG
5.0	05-sep-1990	JS11	BA		9.66e+01	DGG
9.0	05-sep-1990	JS11	BA		1.01e+02	UGG
5.0	05-sep-1990	J911	BA		1.17e+02	DGG
0.0	05-sep-1990	JS11	BA		1.58e+02	DGG
0.0	05-sep-1990	JS11	BB	LT	1.86e+00	DGG
5.0	05-sep-1990	JS11	BE	LT	1.86e+00	UGG
5.0	05-sep-1990	JS11	BB	LT	1.86e+00	DGG
9.0	05-sep-1990	JS11	BB	LT	1.86 e +00	DGG
0.0 5.0	05-sep-1990	JS11	CA		6.35e+03	UGG
9.0	05-sep-1990	JS11	CA		1.06e+04	DGG
5.0	05-sep-1990 05-sep-1990	JS11	CA.		1.33e+04	DGG
0.0	05-sep-1990	JS11 JS11	CA CB	* **	1.45e+04	DGG
5.0	05-sep-1930	JS11	96	LT	3.05e+00	DGG
5.0	05-sep-1990	JS11	86	LT	3.05e+00	DGG
9.0	05-sep-1990	JS11	98	LT LT	3.05e+00	DGG
0.0	05-sep-1990	JS11	Ö	LT	3.05e+00 1.50e+01	DCC
5.0	05-sep-1990	JS11	Ö	LT	1.50e+01	DGG DGG
5.0	05-sep-1990	JS11	co	LT	1.50e+01	DGG
9.0	05-sep-1990	JS11	Č	LT	1.50e+01	DGG
0.0	05-sep-1990	JS11	CR	LT	1.27e+01	DCC .
5.0	05-sep-1990	JS11	CR	LT	1.27e+01	DGG
5.0	05-sep-1990	JS11	CR	LT	1.27e+01	DGG
9.0	05-sep-1990	JS11	CR	LT	1.27e+01	UGG
	05-sep-1990	JS11	CU	LT	5.86e+01	DGG
	05-sep-1990	JS11	CLI	LT	5.86e+01	UGG
5.0	05-sep-1990	JS11	CO	LT	5.86e+01	DGG
	05-sep-1990	JS11	CA	LT	5.86e+01	DGG
	05-sep-1990	J\$11	PB		1.79e+04	UGG
	05-sep-1990	JS11	B B		1.97e+04	UGG
	Ú5-sep-1990	JS11	PB		2.08e+04	UGG
5.0	05-sep-1990	JS11	PB		2.59e+04	DGG

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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

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Site: BORE SBSA007 (continued)

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SAMPLE	Sample	TEST				
DEPTH (ft	DATE	METHOD	COLCOOM TO			
		METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
5.0	05-sep-1990				•••••	
9.0	05-8ep-1990	JS11	<u>X</u>		6.5 5e+02	DGC
5.0	05-sep-1990	JS11	X		7.26e+02	UGG
	05-sep-1990	JS11	K		9.26e+02	DGG
0.0	05-sep-1990	JS11	K		2.02e+03	UGG
5.0	05-sep-1990	JS11	MG		4.46e+03	
0.0	05-sep-1990	JS11	MG		5.44e+03	DGG
9.0	05-sep-1990	JS11	MG			DGG
5.0	05-sep-1990	JS11	MG		5.49e+03	UGG
5.0	05-sep-1990	JS11	MN		6.01e+03	DGG
9.0	05-sep-1990	JS11			3.78e+02	UGG
5.0	05-sep-1990		MN		4.02e+02	DGG
0.0	05 aep-1990	JS11	MN		4.53e+02	DCG
0.0	05-sep-1990	JS11	MN		5.14e+02	DGG
	05-sep-1990	J311	NA		5.09e+02	DGG
9.0	05-sep-1990	JS11	NA		7.53e+02	DGG
5.0	05-sep-1990	JS11	NA		8.09e+02	DGG
5.0	05-sep-1990	JS11	NA		9.63e+02	DGG
0.0	05-sep-1990	JS11	NI	LT	1.26e+01	
5.0	05-sep-1990	JS11	NI	LT	1.26e+01	UGG
5.0	05-sep-1990	J511	NI	ĨŤ	1 364.01	DGG
9.0	05-sep-1990	JS11	NI	LT	1.26e+01	DGG
0.0	05-sep-1390	JS11	SB		1.26e+01	DGG
5.0	05-sep-1990	JS11	SB	LT	3.80e+00	DGG
5.0	05-sep-1990	JS11	SB	LT	3.80e+00	UGG
9.0	05-sep-1990	JS11		LT	3.80e+00	UGG
0.0	05-sep-1990	JS11	SB	LT	3.80e+00	UGG
5.0	05-sep-1990		<u>TL</u>	LT	3.13e+01	DGG
5.0	05-sep-1990	JS11	TL	LT	3.13e+01	UCG
9.0		JS11	TL	LT	3.13e+01	UGG
5.0	05-sep-1990	JS11	TL	LT	3.13e+01	OGG
0.0	05-sep-1990	JS11	V		9.10e+01	UGG
	05-sep-1990	JS11	V		9.42e+01	DGG
9.0	05-sep-1990	JS11	V		9.88e+01	TGG
5.0	05-sep-1990	JS11	V		1.310+02	DGG
5.0	05-sep-1990	JS11	ZN		6.11e+01	DGG.
9.0	05-sep-1990	JS11	ZN		6.740+01	
5.0	05-sep-1990	JS11	ZN		9.760.01	UGG
0.0	05-sep-1990	JS11	ZN		8.76a+01	UGG
	-		••••		9.40e+01	DGG
9.0	05-sep-1990	KF10	NIT		9 0900	
5.0	05-sep-1990	KF10	NIT		1.07e+00	DGG
0.0	05-sep-1990	KF10	NIT		1.17e+00	UGG
• •	-3	YE 7 0	14 T T		3.82 e +00	UGG
0.0	05-sep-1990	KY01	ener.			
5.0	05-sep-1990	KY01	CYN	LT	9.20a-01	DGG
5.0	05-sep-1990		CU	LT	9.20e-01	DGG
9.0		KY01	CYN	LT	9.70e-01	CCC
<i>-</i> . •	05-sep-1990	KY01	CYM	LT	9.20a-01	DGG
					- -	233

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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site: BORE SBSA007D

SAMPLE DEPTH (ft	SAMPLE DATE 05-sep-1990	TEST METHOD JB01	COMPOUND	BOOL	CONCENTRATION 5.00e-02	UNITS
5.0	05- εep-1 990	JD15	SB	LT	2.50e-01	DGG
5.0	05-sep-1990	JD17 .	PB		5.90e+00	UGG
5.0	05-sep-1990	JD18	AG	LT	2. Te-02	UGG
5.0	05-sep-1990	JD19	AS		2.46e+00	DGG
5.0	05-sep-1990	KF10	NIT		1.05e+00	UGG

SAMPLE DEPTH (ft)	SAMPLE DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
5.0 0.0 9.0	10-jul-1990 10-jul-1990 10-jul-1990	00 00 00	SULFID SULFID SULFID	LT LT LT	2.41e-01 2.48e-01 2.50e-01	MGKG MGKG MGKG
0.0 5.0 9.0	10-jul-1990 10-jul-1990 10-jul-1990	ЈВ01 ЈВ01 ЈВ01	eg eg eg	LT LT LT	5.00e-02 5.00e-02 5.00e-02	DGG DGG DGG
0.0 5.0 9.0	10-jul-1990 10-jul-1990 10-jul-1990	JD15 JD15 JD15	Se Se Se	LT LT LT	2.50e-01 2.50e-01 2.50e-01	UGG UGG UGG
5.0 0.0 9.0	10-jul-1990 10-jul-1990 10-jul-1990	JD16 JD16 JD16	v v	·	5.48e+01 6.37e+01 6.64e+01	DGG DGG DGG
0.0 5.0 9.0	10-jul-1990 10-jul-1990 10-jul-1990	JD17 JD17 JD17	PB PB		4.22e+00 4.84c+00 4.96e+00	DGG DGG DGG
9.0 0.0 5.0	10-jul-1990 10-jul-1990 10-jul-1990	JD18 JD18 JD18	AG AG AG	LT LT	3.38e-02 2.50e-02 2.50e-02	DGG DGG DGG
0.0 5.0 9.0	10-jul-1990 10-jul-1990 10-jul-1990	JD19 JD19 JD19	as as as		1.85e+00 3.20e+00 4.12e+00	DGG DGG
5.0 9.0	10-jul-1990 10-jul-1990	JS11 JS11	AL AL		4.26e+03 4.68e+03	DGG DGG

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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site: BORE SBSA008 (continued)

SAMPLE DEPTH (ft)	SAMPLE DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
0.0 5.0	10-jul-1990 10-jul-1990 10-jul-1990	JS11 JS11 JS11	al Ba Ba	••••	4.97e+03 1.15e+02 1.16e+02	DGG DGG DGG
0.0 5.0	10-jul-1990 16-jul-1990 10-jul-1990 10-jul-1990	JS11 JS11 JS11 JS11	BA BB BB BB	LT LT	1.17e+02 1.86e+00 1.86e+00	DGG DGG DGG
0.0 9.0 5.0	l0-jul-1990 l0-jul-1990 l0-jul-1990	JS11 JS11 JS11	CA CA CA	LT	1.86e+00 5.46e+03 1.61e+04 1.69e+04	UGG UGG UGG UGG
5.0 1 9.0 1	lO-jul-1990 lO-jul-1990 lO-jul-1990 lO-jul-1990	JS11 JS11 JS11 JS11	888	LT LT LT	3.05e+00 3.05e+00 3.05e+00	TGG TGG TGG
5.0 1 9.0 1 0.0 1	l0-jul-1990 l0-jul-1990 l0-jul-1990	JS11 JS11 JS11	93333333333333333333333333333333333333	LT LT LT LT	1.50e+01 1.50e+01 1.50e+01 1.27e+01	UGG UGG UGG UGG
9.0 1	10-jul-1990 10-jul-1990 10-jul-1990 10-jul-1990	JS11 JS11 JS11 JS11	CC	LT LT LT	1.27e+01 1.27e+01 5.86e+01	UGG UGG UGG
9.0 1 9.0 1 5.0 1	l0-jul-1990 l0-jul-1990 l0-jul-1990	JS11 J311 JS11	er Le Co	LT LT	5.86e+01 5.86e+01 1.43e+04 1.50e+04	UGG UGG UGG UGG
5.0 1 9.0 1 0.0 1	.0-]ul-1990 .0-]ul-1990 .0-]ul-1990 .0-]ul-1990	JS11 JS11 JS11 JS11	FB K K K		1.57e+04 1.17e+03 1.48e+03 1.57e+03	DGG DGG DGG
C.0 1 5.0 1 9.0 1	.0-]ul-1990 .0-jul-1990 .0-jul-1990	JS11 JS11 JS11	MG MG MG		4.89e+03 5.72e+03 6.45e+03	UGG UGG UGG UGG
9.0 1 0.0 1 0.0 1	.0-jul-1990 .0-jul-1990 .0-jul-1990 .0-jul-1990	JS11 JS11 JS11 JS11	MN MN MN NA		4.39e+02 4.69e+02 4.74e+02	TIGG TIGG . TIGG
5.0 1 9.0 1 0.0 1	0-]ul-1990 0-jul-1990 0-jul-1990 0-jul-1990	JS11 JS11 JS11	na Na Ni	LT	4.70e+02 4.84e+02 4.90e+02 1.26e+01	UGG UGG UGG
9.0 . 1 0.0 1 5.0 1	0-jul-1990 0-jul-1990 0-jul-1990	JS11 JS11 JS11 JS11	NI NI SB SB	LT LT LT LT	1.26e+01 1.26e+01 3.80e+00 3.80e+00	DGG DGG DGG DGG
0.0 1 5.0 1	0-jul-1990 0-jul-1990 0-jul-1990 0-jul-1990	JS11 JS11 JS11 JS11	SB TL TL	LT LT LT	3.80e+00 3.13e+01 3.13e+01	DGG DGG DGG
0.0 1	0-jul-1990 0-jul-1990	JS11 JS11 JS11	TL ZN ZN	LT LT	3.13e+01 6.14e-01 3.02e+01	ugg ugg ugg

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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site:	BORE	SBSA008	(continued)
Jice.		SESMUUG	(continued)

SAMPLE DEPTH (f	SAMPLE t) DATE	TEST METROD	COMPOUND	BOOL	CONCENTRATION	UNITS
9.0	10-jul-1990	JS11	ZN	LT	3.02e+01	UGG
0.0	10-jul-1990	KF10	NIT	LT	6.00e-01	DGG
5.0	10-jul-1990	KF10	NIT	LT	6.00e-01	DGG
9.0	10-jul-1990	KF10 .	NIT	LT	6.00e-01	DGG
0.0	10-jul-1990	KY01	CYN	LT	9.20e-01	DGG
5.0	10-jul-1990	KY01	CYN	LT	9.20e-01	DGG
9.0	10-jul-1990	KY01	CYN	LT	9.20e-01	DGG

SAMPLE DEPTH (ft	SAMPLE) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
9.0 0.0 5.0 9.0	05-sep-1990 05-sep-1990 05-sep-1990 05-sep-1990	00 00 00 00	SULFID SULFID SULFID	LT LT LT LT	2.42e-01 2.43e-01 2.44e-01 2.44e-01	DGG DGG DGG
0.0 5.0 9.0	05-sep-1990 05-sep-1990 05-sep-1990	JB01 JB01 JB01	HG HG HG	LT LT LT	5.00e-02 5.00e-02 5.00e-02	DGG DGG
0.0	05-sep-1990	JD15	Se	LT	2.50e-01	DGG
5.0	05-sep-1990	JD15	Se	LT	2.50e-01	DGG
9.0	05-sep-1990	JD15	Se	LT	2.50e-01	DGG
9.0	05-sep-1990	JD17	PB		4.02e+00	ugg
5.0	05-sep-1990	JD17	PB		4.04e+00	ugg
0.0	05-sep-1990	JD17	PB		4.27e+00	ugg
0.0 5.0 9.0	05-sep-1990 05-sep-1990 05-sep-1990	JD18 JD18 JD18	ag ag ag	LT LT.	3.05e-02 2.50e-02 2.50e-02	UGG UGG UGG
0.0	05-sep-1990	JD19	as		2.24e+00	UGG
5.0	05-sep-1990	JD19	As		3.69e+00	UGG
9.0	05-sep-1990	JD19	As		4.89e+00	UGG
0.0	05-sep-1990	JS11	AL		5.69e+03	DGG
5.0	05-sep-1990	JS11	AL		5.69e+03	DGG
9.0	05-sep-1990	JS11	AL		6.61e+03	DGG
9.0	05-sep-1990	JS11	BA		6.93e+03	DGG
5.0	05-sep-1990	JS11	BA		1.18e+02	DGG
9.0	05-sep-1990	JS11	BA		1.31e+02	DGG

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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site: BORE SBSA009 (continued)

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SAMPLE DEPTH (ft	SAMPLR :) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
9.0	05-sep-1990				*****	
0.0	02-860-1330	JS11	BA		1.45e+02	DGG
	05-sep-1990	JS11	BB	LT	1.86e+00	DGG
5.0	05-sep-1990	JS11	BB	LT	1.86e+00	DGG
9.0	05-sep-1990	JS11	BB	LT	1.86e+00	
9.0	05-sep-1990	JS11 .	BB	LT	1.86e+00	DGG
0.0	05-sep-1990	JS11	CA	~.	£ 260.02	DGG
9.0	05-sep-1990	JS11	CA		6.26e+03	DGG
9.0	05-sep-1990	JS11	CA		1.49e+04	DGG
5.0	05-sep-1990	JS11			1.59e+04	DGG
0.0	05-sep-1990		· CA		1.68e+04	DGG
5.0	05-sep-1990	JS11	8	LT	3.05e+00	DGG
9.0	05-Bep-1990	JS11	CD	LT	3.0 5e+00	DGG
9.0	05-sep-1990	JS11	8	LT	3.05e+00	VGG
	05-sep-1990	JS11	E	LT	3.05e+00	DGG
0.0	05-sep-1990	JS11	CO	LT	1.50e+01	DGG
5.0	05-sep-1990	JS11	CO	LT	1.50e÷01	
9.0	05-sep-1990	· JS11	CO	LT	1.50e+01	UGG
9.0	05-sep-1990	JS11	co	ĹŤ		UGG
0.0	05-sep-1990	JS11	CR	LT	1.50e+01	DGG
5.0	05-sep-1990	JS11	ČŘ	LT	1.27e+01	DGG
9.0	05-sep-1990	JS11	CR		1.27e+01	UGG
9.0	05-sep-1990	JS11	CR CR	LT	1.272+01	UGG
0.0	05-sep-1990	JS11		LT	1.27e+01	UGG
5.0	05-sep-1990	JS11	CU	LT	5.86e+01	. DGG
9.0	05-sep-1990	JS11	CO	LT	5.86e+01	DGG
9.0	05-sep-1990		ਧ	LT	5.86e+01	DGG
0.0	05-sep-1990	JS11	CO	LT	5.86e+01	UGG
5.0	05-865-1990	JS11	PB		1.95e+04	UGG
9.0	05-sep-1990	JS11	PE		1.99e+04	UGG
9.0	05-sep-1990	JS11	FB		2.32e+04	UGG
5.0	05-sep-1990	JS11	FB		2.32e+04	UGG
9.0	05-sep-1990	JS11	K		1.16e+03	UGG
	05-sep-1990	JS11	K		1.40e+03	DGG
9.0	05-sep-1990	JS11	K		1.41e+03	UGG
0.0	05-sep-1990	JS11	K		1.90e+03	
0.0	05-sep-1990	JS11	MG		5.59e+03	DGG
5.0	05-sep-1990	JS11	MG		6.67e+03	UGG
9.0	05-sep-1990	JS11	MG		7 570.03	DGG
9.0	05-sep-1990	JS11	MG		7.52e+03	UGG
0.0	05-sep-1990	JS11	MN		7.58e+03	UGG
5.0	05-sep-1990	JS11	MN		4.91e+02	UGG
9.0	05-sep-1990	JS11	MN		4.95e+02	UGG
9.0	05-sep-1990	JS11			5.51e+02	UGG
0.0	05-sep-1990		MN		5.87e+02	DGG
5.0	05-sep-1990	JS11 JS11	NA NA		5.38e+02	UGG
9.0	05-sep-1990		NA		5.85e+02	UGG
9.0	05-sep-1990	JS11	NA		6.22e +02	UGG
0.0	05-86p-1990	JS11	NA		6.2 5e+02	DGG
5.0	05-sep-1990	JS11	NI	LT	1.26e+01	DGG
9.0	05-sep-1990	JS11	NI	LT	1.26e+01	DGG
. 3.0	05-sep-1990	JS11	NI	LT	1.26e+01	TGG
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Background Analytical Results for Chemical Soil
From: 01-apr-90 To: 31-dec-91

Site: BORE SBSA009 (continued)

SAMPLE DEPTH (f	SAMPLE (t) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
	05 1000				********	
9.0	05-вер-1990	JS11	NI	LT	1.26e÷01	UGG
0.0	05-sep-1990	JS11	SB	LT	3.80e+00	DGG
5.0	· 05-вер-1990	JS11	SB	LT	3.80e+00	UGG
9.0	05-sep-1990	JS11	SB	LT	3.80e+00	UCG
9.0	05-sep-1990	JS11	SB	LT	3.80e+00	UGG
0.0	05-sep-1990	JS11	TL	LT	3.13e+01	UCG
5.0	05-sep-1990	JS11	TL	LT	3.13e+01	DGG
9.0	05-sep-1990	JS11	TL	LT	3.13e+01	DGG
9.0	05-sep-1990	JS11	TL	LT	3.13e+01	DGG
5.0	05-sep-1990	JS11	. V		8.25e+01	DGG
0.0	05-sep-1990	JS11	V		8.66e+01	DGG
9.0	05-sep-1990	JS11	Ÿ		9.38e+01	DGG
9.0	05-sep-1990	JS11	Ÿ		9.44e+01	UGG
5.0	05-sep-1990	JS11	ZN		6.92e+01	DGG
9.0	05-sep-1990	JS11	ZN .		7.53e+01	DGG
9.0	05-sep-1990	JS11	ZN		7.57e+01	DGG
0.0	05-sep-1990	JS11	ZN		8.57e+01	
					0.376701	UGG
9.0	05-sep-1990	KF10	NIT		7.84e-01	UGG
5.0	05-sep-1990	KF10	MIT		2.41e+00	
0.0	05-sep-1990	KF10	NIT	*		UGG
	00 Dep 2350	M. TO	WIT		8.47e+00	UGG
0.0	05-sep-1990	KY01	CYN	LT	9 200 01	
5.0	05-sep-1990	KY01	CYN		9.20e-01	DGG
9.0	05-sep-1990	KY01	CYN	LT	9.20e-01	UGG
9.0	05-sep-1990	KY01		LT	9.20e-01	UGG
	an pep-1096	VIOT	CYM	LT	9.20e-01	UGG

Site: BORE SBSA009D

SAMPLE DEPTH (ft	Sample) Date	TEST METHOD	COMPOUND	BCOL	CONCENTRATION	UNITS
9.0	05-sep-1990	JB01	EG	LT	5.00e-02	UGG
9.0	05-sep-1990	JD15	SE	LT	2.50e-01	UGG
9.0	05-sep-1990	JD17	PB		3.31e+00	D GG
9.0.	05-sep-1990	JD18	AG	LT	2.50e-02	UGG
0.0	05-sep-1990	JD19	AS		4.62e+00	UGG
9.0	05-sep-1990	KF10	NIT		6.61e-01	UGG

, 7,

Installation: Umatilla AD . Page 19 Background Analytical Results for Chemical Soil From: 01-apr-90 To: 31-dec-91

SAMPLE DEPTH (ft	SAMPLE DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	UNITS
5.0	05-400-1000			••••	*******	
0.0	05-sep-1990	00	SULFID	LT	2.33e-01	DGG
9.0	05-sep-1990	00	SULFID	LT	2.44e-01	UGG
3.0	05-sep-1990	00	SULFID	LT	2.49e-01	UGG
0.0	05-sep-1990	JB01	HG	LT	5.00e-02	7766
5.0	05-sep-1990	JD01	HG	LT	5.00e-02	UGG
9.0	05-sep-1990	JB01	EG	LT	5.00e-02	UGG UGG
0.0	A				J. 100 G. U.D.	
0.0	05-sep-1990	JD15	SB	LT	2.50e-01	DGG
5.0 9.0	05-sep-1990	JD15	SE	LT	2.50e-01	UGG
3.0	05-sep-1990	JD15	SB	LT	2.50e-01	UGG
5.0	05-sep-1990	JD17	PB		2 1000	
9.0	05-sep-1990	JD17	PB		2.18e+00	DGG
0.0	05-sep-1990	JD17	PB		3.07e+00	UGG
					4.88e+00	UGG
9.0	05-sep-1990	JD18	AG		3.30e-02	TGG
0.0	05-sep-1990	JD18	AG	LT	2.50e-02	UGG
5.0	05-sep-1990	JD18	AG	LT	2.50e-02	DGG
0.0	05-sep-1990	· JD19	AS			
7.0	05-sep-1990	JD19	AS ·	-	2.61e+00	UGG
5.0	05-sep.1990	JD19	AS AS		3.05e+00	DGG
		4213	A.5		3.05e+00	UGG
5.0	05-sep-1990	JS11 ·	AL		4.64e+03	UGG
9.0	05-sep-1990	JS11	AL		4.65e+03	UGG
0.0	05-sep-1990	JS11	AL		6.30e+03	UGG
9.0	05-sep-1990	JS11	BA		7.10e+01	TGG
5.0	05-sep-1990	JS11	BA		1.15e+02	DGG
0.0	05-sep-1990	JS11	BA		1.24e+02	UGG
0.0	05-sep-1990	JS11	BE	LT	1.86e+00	UGG
5.0	05-sep-1990	JS11	BB	LT	1.86e+00	VGG
9.0	05-sep-1990	JS11	BB	LT	1.86e+00	UGG
0.0 5.0	05-sep-1990	JS11	CA		5.64e+03	UGG
	05-sep-1990	JS11	CA		1.36e+04	UGG
9.0	05-sep-1990	JS11	<u>CA</u>		2.36e+04	UGG
0.0 5.0	05-sep-1990	JS11	6	LT	3.0Se+00	UGG
9.0	05-sep-1990	JS11	<u> </u>	LT	3.05e+00	UGG
0.0.	05-sep-1990	JS11	CD	LT	3.05e+00	UGG
5.0	05-seນ-1990 05-sep-1990	JS11	œ	LT	1.50e+01	UGG
9.ó	05-sep-1990	JS11 .7811	∞	LT	1.50e+01	UGG
5.0	05-sep-1990	JS11 JS11	ထ	LT	1.50e+01	UGG
0.0	05-sep-1990	JS11	CR CR	T m	3.27e+01	UGG
9.0	05-sep-1990	JS11	CR CR	LT	1.27e+01	<u>D</u> GG
0.0	05-sep-1990	JS11	CD CX	LT	1.27e+01	UGG
5.0	05-sep-1990	JS11	co	LT LT	5.86e+01	UGG
9.0	05-sep-1990	JS11	CD	LT	5.86e+01	DGG .
				TIT.	5.86e+01	DGG .

Installation: Umatilla AD Page 20 Background Analytical Results for Chemical Soil From: 01-apr-90 To: 31-dec-91

Site: BORE SESA010 (continued)

SAMPLE DEPTH (ft	SAMPLE c) DATE	TEST METHOD	COMPOUND	BOOL	CONCENTRATION	פרנאט
0.0	05-sep-1990	JS11	PB		1.89e+04	تاتان
9.0	05-sep-1990	JS11	FE		2.09e+04	DGG
5.0	05-sep-1990	JS11	FB		2.28e÷04	0 6
5.0	05-sep-1990	JS11	K		7.79e+02	ΰĉ
9.0	05-sep-1990	JS11	K		9.67e+02	ÜĞG
0.0	05-sep-1990	JS11	K		2.02e+03	DGG
0.0	05-sep-1990	JS11	MG		4.98e+03	ÜĞ.
5.0	05-sep-1990	JS11	MG		5.32e+03	ΰĠ
9.0	05-sep-1990	JS11	MG		6.52e+03	DGG
5.0	05-sep-1990	JS11	MN		4.41e+02	ריים
9.0	05-sep-1990	JS11	MN		4.45e+02	ΰĞ
0.0	05-sep-1990	JS11	MN		4.63e+02	ĎĞ.
0.0	05-sep-1990	JS11	NA		5.14e+02	TGG
5.0	05-sep-1990	JS11	NA		7.38e+02	ŬĞ ²
9.0 ·	05-sep-1990	JS11	NA		8.98e+02	ŬĞ
0.0	05-sep-1990	JS11	NI	LT	1.26e+01	ŪĞĿ
5.0	05-sep-1990	JS11	NI	LT	1.26e+01	UGG
9.0	05-sep-1990	JS11	NI	LT	1.26e+01	ŬG .
0.0	05-sep-1990	JS11	SB	LT	3.80e+00	ĎĞ
5.0	05-sep-1990	JS11	SB	LT	3.80e+00	ÜĞG
9.0	05-sep-1990	JS11	SB	LT	3.80e÷00	DGG
0.0	05-sep-1990	JS11	TL .	LT	3.13e+01	ŪĞ .
5.0	05-sep-1990	JS11 '	TL	LT	3.13e+01	ŪĞ
9.0	05-sep-1990	JS11	TL	LT	3.13e+01	ÜĞG
9.0	05-sep-1990	JS11	v		6.65e+01	DGC
0.0	05-sep-1990	JS11	V		7.68e+01	0G
5.0	05-sep-1990	JS11	V		1.05e+02	DG.
5.0	05-sep-1990	JS11	ZN		6.82e+01	TGG
0.0	05-sep-1990	JS11	ZN		7.14e+01	ŪG~
9.0	05-sep-1990	JS11	ZN		8.26e+01	ŪĞ
	-				***************************************	-
5.0	05-sep-1990	KF10	NIT		9.72e-01	UGG
9.0	05-sep-1990	KF10	NIT		2.30e+00	DG.
0.0	05-sep-1990	KF10	NIT		9.95e+00	ŪĠ
	-				31330.00	
0.0	05-sep-1990	KY01	CYN	LT	9.20e-01	DGC
5.0	05-sep-1990	KY01	CYN	LT	9.20e-01	DG.
9.0	05-sep-1990	KY01	CYN	LT	9.20e-01	DG_
					7 * # A C = A T	~

Appendix G
Comparison of Background and
WLSSI Soils Data

•	Summary of		ble G-1 ations
UMDA Backgro	und Soils Inve	stigation	1
Site ID	Depth (1)	Be	7
SBSA001	0	<1.86	1
	5	<1.86	
	9	<1.86	
SBSA002	0	<1.86	1
	5	<1.86	
	9	<1.86	
SBSA003	0	<1.86	
	5	<1.86	
SBSA004	0	<1.86	1
	5	<1.86	
SBSA005	0	<1.86	
	5	<1.86	
	9	<1.86	
ŝBSA006	0	<1.86	
	5	<1.86	
	9	<1.86	
SBSA007	0	<1.86	
	5	<1.86	
	9	<1.86	
SBSA008	0	<1.86	
	5	<1.86	
	9	<1.86	
SBSA009	0	<1.86	
	5	<18.6	
	9	<1.86	
SBSA0010	0	<1.86	
	5	<1.86	
	9	<1.86	

	WLSSI Results					
Site ID	Depth	Be				
S4B-5	0	<1.85				
	4	<1.86				
	10	< 1.86				
S4B-6	0	<1.86				
	4	2.74				
	10	<1.86				
S4B-7	0	<1.86				
	4	3.17				
	10	3.20				
S4B-8	0	3.01				
	4	2.8 8				
10 2.64						
Average Be condetected = 2.	oncentration who	ere				

USGS ₍₂₎ Results	
Note: Concentration of Be in	-
all 5 samples from northeastern Oregon <1 μg/g.	
3	

(1) (2)

In feet below land surface Shacklette and Boerngen, 1984